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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In The Reissue Of

U.S. Pat. No. 5,413,774

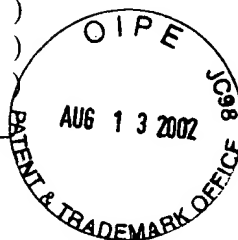
Reissue Serial No. 09/115,963

For: Long-Lasting Aqueous Dispersions
Or Suspensions Of Pressure-
Resistant Gas-filled Microvesicles
And Methods For The Preparation
Thereof.

) Examiner: G. Holliden

) Art Unit: 1616

) DECLARATION OF
RICHARD D. CHAMBERS



Sir:

I, Richard D. Chambers, declare as follows:

1. I am a citizen of the United Kingdom, residing at 5 Aykley Green, Durham, England.
2. As set forth in my *Curriculum Vitae*, submitted as Exhibit 1, I earned a Bachelor of Science (Honours, Class 1) degree in Chemistry in 1956, a Ph.D. in Chemistry in 1959, and a D.Sc. in 1968, all from the University of Durham, England. I held a Postdoctoral Fellowship at the University of British Columbia, Vancouver, from 1959 to 1960, and was thereafter appointed a Lecturer at the University of Durham.
3. I am presently a full Professor of Chemistry at Durham, and was Chairman and Head of the Department of Chemistry from 1983 to 1986. Since 1995, I also have been a Nonexecutive Director of F2 Chemicals, Ltd., a British company specializing in fluorochemicals. I received the American Chemical Society Award for Creative Work in Fluorine Chemistry in 1981. In 1997, I was elected a Fellow of the Royal Society (The United Kingdom Academy of Sciences). I authored the specialist treatise "Fluorine in Organic Chemistry" published by Wiley-Interscience, New York. In addition, I have co-authored numerous peer-reviewed published papers related to organofluorine chemistry.

4. I have reviewed the Schneider applications U.S.S.N. 07/695,343 and 07/775,989 and EP Application Nos. 92810046.0, 90810262.7, 90810367.4 and PCT/EP91/00620 ("Schneider's earlier-filed applications"). Each of Schneider's earlier filed applications discloses a "physiologically acceptable gas being selected from the group consisting of SF₆, . . . CF₄, CBrF₃, C₄F₈, CClF₃, C₂F₆, C₂ClF₅, CBrClF₂, C₂Cl₂F₄, CBr₂F₂ and C₄F₁₀" in the specifications generally, through the disclosure of the use of "physiologically acceptable gases" (e.g., U.S.S.N. 07/695,343, p. 10; EP 90810367.4, p. 10; U.S.S.N. 07/775,989, pp. 1, 15; PCT/EP91/00620, pp. 1, 15; EP 90810262.7, pp. 1, 14), and specifically, through the disclosure of the use of "freon" for its microbubble contrast agents (e.g., U.S.S.N. 07/695,343, p. 10; EP 90810367.4, p. 10; U.S.S.N. 07/775,989, pp. 9, 15; PCT/EP91/00620, pp. 9, 15; EP 90810262.7, pp. 8, 14; EP 92810046.0, p. 17).

5. The term "freon" generally refers to a well-known, well-documented family of fluorinated carbon-containing compounds which includes a "physiologically acceptable gas comprising an organic compound containing one or more carbon atoms and fluorine. Chlorine, bromine and hydrogen atoms may also be present." E.I. DuPont DeNemours and Company, "Freon" Fluorocarbons: Properties And Applications, Freon Product Information, 1987 p. 2. Furthermore, the principal properties of freon include "non-flammability, low toxicity, excellent thermal and chemical stability, high density coupled with low boiling point, low viscosity, and low surface tension." E.I. DuPont DeNemours and Company, "Freon" Fluorocarbons: Properties And Applications, Freon Production Information, 1987, p. 2. Given these disclosures in the specification, as well as the well recognized characteristics and properties of freon, it is clear that freon includes CF₄, CBrF₃, C₄F₈, CClF₃, C₂F₆, C₂ClF₅, CBrClF₂, C₂Cl₂F₄, CBr₂F₂ and C₄F₁₀.

6. It is well established that C₄F₁₀ is a freon. Both CF₄ and C₂F₆ (i.e., CF₃-CF₃) are advertised as freon products. E.g., E.I. DuPont DeNemours and Company, "Freon"

Fluorocarbons: Properties And Applications, Freon Product Information, 1987, p. 2. The presence of both CF_4 and C_2F_6 as freons in a brochure advertising specific freon products for sale supports that other saturated perfluorinated carbon-containing gases such as C_4F_{10} should also be freons. E.I. DuPont DeNemours and Company, "Freon" Fluorocarbons: Properties And Applications, Freon Product Information, 1987, p. 2. The mere absence of a compound from a brochure which advertises some specific freon products for sale does not preclude unadvertised compounds such as C_4F_{10} which meet the proper characteristics and properties from being recognized as freons.

7. Furthermore, it is well established that CBrClF_2 and CBr_2F_2 are freons. As an initial matter, CF_4 , CBrF_3 and CClF_3 are advertised as freon products. E.I. DuPont DeNemours and Company, "Freon" Fluorocarbons: Properties And Applications, Freon Product Information, 1987, p. 2. The presence of gases such CF_4 , CBrF_3 and CClF_3 as freons in a brochure advertising specific freon products for sale supports that gases wherein one or more bromine or chlorine atoms are substituted for fluorine in a saturated perfluorinated carbon-containing gas are also freons. Thus, since CBrClF_2 and CBr_2F_2 each substitute one or more bromine or chlorine atoms for fluorine in the saturated perfluorinated carbon-containing freon gas CF_4 , they too should be considered freons. E.I. DuPont DeNemours and Company, "Freon" Fluorocarbons: Properties And Applications, Freon Product Information, 1987, p. 2. The mere absence of a compound from a brochure which advertises some specific freon products for sale does not preclude unadvertised compounds such as C_4F_{10} , CBrClF_2 and CBr_2F_2 which meet the proper characteristics and properties from being recognized as freons.

8. Additionally, even if some gases such as SF_6 are not freons, Schneider's earlier filed applications still support the disclosure of SF_6 because it recites "physiologically acceptable gases like . . . freon" and SF_6 is a fluorine-containing gas with substantially similar properties to

freon. EP 90810262.7, p. 14; PCT/EP91/00620, p. 15; and EP 9081367.4, p. 10. On another note, SF₆ is specifically supported in EP 92810046.0, p. 12.

All statements made of my own knowledge are true and all statements made on information and belief are believed to be true. I make this declaration understanding that willful false statements and the like are punishable by fine or imprisonment, or both (18 U.S.C. § 1001) and may jeopardize the validity of the patent application or any patent issuing thereon.

Respectfully submitted,

Richard D. Chambers
Richard D. Chambers, Ph.D.

Dated: 22 March, 2,000.

PROFESSOR RICHARD DICKINSON CHAMBERS

Born: Stanley, County Durham, England, March 16th 1935.

Education:

Stanley Grammar School,	1946-1953
University of Durham,	1953-1956
	B.Sc.(Hons) Chemistry Class 1
	1956-1959
	Ph.D. (supervisor: Professor W.K.R. Musgrave)

Career:

University of British Columbia, Vancouver,	1959-1960 Post-doctoral research fellowship with Professor H.C. Clark
University of Durham	1960- Appointed Lecturer
Case-Western Reserve University, Cleveland, Ohio	1966-1967 Sabbatical Leave. Fulbright Scholar and Visiting Lecturer. Research collaboration with Professor G.A. Olah .
University of Durham	1968 Awarded D.Sc.
	1969 Appointed Reader in Chemistry
Book Publication of 'Fluorine in Organic Chemistry', Wiley-Interscience, N.Y.	1973
University of Durham	1976 Appointed Professor of Chemistry
	1983-1986 Chairman and Head of the Dept. of Chemistry
	1988-89 Sir Derman Christopherson Research Fellow
Award	1991

American Chemical Society Award
for Creative Work in Fluorine
Chemistry

Visiting Professor	1995 University of Paris
Directorship	1995 Appointed Non-Executive Director of F2Chemicals Ltd.
Fellow of the Royal Society	1997 Elected.
Tarrant visiting Professor	1999 University of Florida, Inaugural recipient.

Professor Chambers has published many papers in academic journals as well as books, and papers on the subject of organic compounds containing fluorine.

List of Publications - Professor R.D. Chambers

(University of Durham, U.K.)

1959

1. The Oxidation of Aromatic Hydrocarbons and Phenols by Trifluoroperoxyacetic Acid
R.D. Chambers, P. Goggin, and W.K.R. Musgrave
J. Chem. Soc., 1959, 1804.

1960

2. The Reaction of Hexamethyl-Ditin with Trifluoro-iodomethane
R.D. Chambers, H.C. Clark and C.J. Willis
Chem. and Ind., 1960, 76.
3. The Trifluoromethylfluoroborate Anion
R.D. Chambers, H.C. Clark, and C.J. Willis
Proc. Chem. Soc., 1960, 114.
4. Some Salts of Trifluoromethylfluoroboric Acid
R.D. Chambers, H.C. Clark, and C.J. Willis
J. Amer. Chem. Soc., 1960, 82, 5298.

1961

5. The Addition of 'Halogen Monofluorides' to Fluoro olefins
R.D. Chambers, W.K.R. Musgrave, and J. Savory
Proc. Chem. Soc., 1961, 113.
6. Mixtures of Halogens and Halogen Polyfluorides as Effective Sources of the Halogen Monofluorides in Reactions with Fluoro-olefins
R.D. Chambers, W.K.R. Musgrave, and J. Savory
J. Chem. Soc., 1961, 3779.
7. Perfluoroalkyl Derivatives of Tin II. Dimethyltrifluoromethyltin chloride
R.D. Chambers, H.C. Clark, and C.J. Willis
Canad. J. Chem., 1961, 39, 131.
8. The Fluorine Magnetic Resonance in the Ions $[BF_4]^-$ and $[CF_3BF_3]$
R.D. Chambers, H.C. Clark, L.W. Reeves, and C.J. Willis
Canad. J. Chem., 1961, 39, 258.
9. The Semi-Micro Determination of Fluorine and Chlorine in Organic Compounds
R.D. Chambers, W.K.R. Musgrave, and J. Savory
J. Analyt. Chem., 1961, 86, 356.

1962

10. Organometallic and Metalloid Compounds Made from Heptafluoro-2-iodopropane, and their Properties
R.D. Chambers, W.K.R. Musgrave, and J. Savory
J. Chem. Soc., 1962, 1993.
11. The Preparation and Study of Some Pentafluorophenyl-mercury Compounds
R.D. Chambers, G.E. Coates, J.G. Livingstone, and W.K.R. Musgrave
J. Chem. Soc., 1962, 1367

1963

12. Model Compounds Related to Viton A
R.D. Chambers, J. Hutchinson, and W.K.R. Musgrave
Tetrahedron Lett., 1963, 619.
13. Cleavage Reactions of Pentafluorophenyl Derivatives of Tin and Boron
R.D. Chambers and T. Chivers
Proc. Chem. Soc., 1963, 208.
14. Direct Preparation of Some Functional Fluoroaromatic Compounds
G.M. Brooke, R.D. Chambers, J. Heyes, and W.K.R. Musgrave
Tetrahedron, 1963, 94
15. Hexafluoro- and Perchlorofluoro-Benzenes from Perchlorodifluorocyclohexanes and -Cyclohexenes
R.D. Chambers, J. Heyes, and W.K.R. Musgrave
Tetrahedron, 1963, 19, 891.
16. Orientation Reactions of Chloropentafluorobenzene and Related Compounds
G.M. Brooke, R.D. Chambers, J. Heyes, and W.K.R. Musgrave
Proc. Chem. Soc., 1963, 213.

1964

17. Direct Preparation and Some Reactions of Chlorofluorobenzenes
G.M. Brooke, R.D. Chambers, J. Heyes, and W.K.R. Musgrave
J. Chem. Soc., 1964, 729.
18. Pentafluoro- and Chlorofluoro-Pyridines
R.D. Chambers, J. Hutchinson, and W.K.R. Musgrave
Proc. Chem. Soc., 1964, 83.
19. Polyfluoro-heterocyclic Compounds. Part I. The Preparation of Fluoro-, Chlorofluoro-, and Chlorofluorohydro-pyridines
R.D. Chambers, J. Hutchinson, and W.K.R. Musgrave

- J. Chem. Soc., 1964, 3573.
20. Polyfluoro-heterocyclic Compounds. Part 2. Nucleophilic Substitution in Pentafluoropyridine
R.D. Chambers, J. Hutchinson, and W.K.R. Musgrave
J. Chem. Soc., 3736.
21. Polyfluoro-heterocyclic Compounds. Part 3. Hydroxy-derivatives of Pentafluoro- and
Chlorofluoro-pyridines
R.D. Chambers, J. Hutchinson, and W.K.R. Musgrave
J. Chem. Soc., 1964, 5634.
22. Telomerisation Reactions in the Synthesis of Models for Some Fluorocarbon Polymers
R.D. Chambers, J. Hutchinson, R.H. Mobbs, and W.K.R. Musgrave
Tetrahedron, 1964, 20, 497.
23. Polyfluoroaryl Organometallic Compounds. Part 1. Pentafluorophenyl Derivatives of Tin
R.D. Chambers and T. Chivers
J. Chem. Soc., 1964, 4782.
24. Details of the Preparation of the Biphenyl-Sodium-Dimethoxyethane Complex
R.D. Chambers, T.F. Holmes, and W.K.R. Musgrave
The Analyst, 1964, 89, 369.

1965

25. 'Ionic Reactions of Fluoro-olefins'. R.D. Chambers and R.H. Mobbs. Advances in Fluorine Chemistry.
Vol. 4. Ed. Stacey, Tallow, and Sharpe. Butterworths, London, 1965, pp. 50-112.
26. Polyfluoroheterocyclic Compounds. Part 4. Compounds Derived from 4-Aminotetrafluoropyridine
R.D. Chambers, J. Hutchinson, and W.K.R. Musgrave
J. Chem. Soc., 1965, 5040.

1966

27. Part 5. Catalytic Reduction of Perfluoro- and Chlorofluoro-pyridines and the
Preparation of Polyfluoropyridine Carboxylic Acids
R.D. Chambers, F.G. Drakesmith, and W.K.R. Musgrave
J. Chem. Soc., 1965, 5045.
28. Diels-Alder Adducts of a Perfluorodiene and a Synthesis of Tetrafluoronaphthalene
R.D. Chambers, W.K.R. Musgrave, and D.A. Pyke
Chem. and Ind., 1965, 564.
29. Polyfluoroaryl Organometallic Compounds. Part 2. Pentafluorophenylboron Halides and Some
Derived Compounds
R.D. Chambers and T. Chivers
J. Chem. Soc., 1965, 3933.

30. Polyfluoroaryl Organometallic Compounds. Part 3 Potassium Pentafluorophenyltrifluoroborate
R.D. Chambers, T. Chivers, and D.A. Pike
J. Chem. Soc., 1965, 5144
31. Pentafluorophenyl Derivatives of Trivalent Aluminium
R.D. Chambers and J.A. Cunningham
Sci. Letters, 1965, 2389.
32. Polyfluoroheterocyclic Compounds. Part 6 Nucleophilic Substitution in Tetrafluoro 4-antropyrizine
R.D. Chambers, J. Hutchinson, and W.K.R. Musgrave
J. Chem. Soc. (C), 1966, 220.
33. Polyfluoroheterocyclic Compounds. Part 7 Heptafluoroquinoline and -isoquinoline
R.D. Chambers, M. Hole, B. Iddon, W.K.R. Musgrave, and R.A. Storey
J. Chem. Soc. (C), 1966, 2328.
34. Polyfluoroheterocyclic Compounds. Part 8 Nucleophilic Substitution in Heptafluoro-quinoline and -isoquinoline
R.D. Chambers, M. Hole, W.K.R. Musgrave, R.A. Storey, and (in part) B. Iddon
J. Chem. Soc. (C), 1966, 2331.
35. Preparation of Nucleophilic Substitution in Perfluoropyridazine(Perfluoro-1,2diazine)
R.D. Chambers, J.A.H. MacBride, and W.K.R. Musgrave
Chem. and Ind., 1966, 904.
36. Preparation and Nucleophilic Substitution of Perfluoropyrazine and a New Synthesis of Perfluoropyrimidine
R.D. Chambers, J.A.H. MacBride, and W.K.R. Musgrave
Chem. and Ind., 1966, 1721.
37. Polyfluoroalkylation. The Nucleophilic Equivalent of Friedel-Crafts Reactions
R.D. Chambers, R.A. Storey, and W.K.R. Musgrave
Chem. Comms., 1966, 384.
38. Pentafluorophenyl-Metal Compounds
R.D. Chambers and T. Chivers
Organometallic Chem. Revs., 1966, 1, 279.

1967

39. Polyfluoroheterocyclic Compounds. Part 9 Tautomerism in Polyfluorohydroxy-quinolines and -isoquinolines
R.D. Chambers, M. Hole, W.K.R. Musgrave, and R.A. Storey
J. Chem. Soc. (C), 1967, 53.
40. An SO Elimination leading to Octafluorodibenzofuran
R.D. Chambers and J.A. Cunningham
Chem. Comms., 1967, 583.

11. Bis-(tetrafluoropyridyl)mercurials and an Attempted Generation of Trifluoropyridyl
R.D. Chambers, F.G. Drakesmith, Hutchinson and W.K.R. Musgrave
Tet. Letters, 1967, 1705
12. Polyfluoroaryl Organometallic Compounds. Part 4. Fluorocarbon Derivatives of Trivalent
Aluminium
R.D. Chambers and J.A. Cunningham
J. Chem. Soc. (C), 1967, 2185
13. Polyfluoroaryl Organometallic Compounds. Part 5. An Olefin-Insertion Reaction into
Fluorocarbon-Aluminium Compounds and a σ -Bonded Olefin-Aluminium System
R.D. Chambers and J.A. Cunningham
Tet. Letters, 1967, 2813
14. Alkyl- and Aryl-alkylfluorocarbonium Ions. The Dimethyl- and Phenylmethyl-fluorocarbonium ion
G.A. Olah, R.D. Chambers, and M.B. Comisarow
J. Amer. Chem. Soc., 1967, 89, 1268

1968

45. Polyfluoroheterocyclic Compounds. Part 10. 2,3,5,6-Tetrafluoro-4-methylpyridine and related
Compounds
R.D. Chambers, B. Iddon, W.K.R. Musgrave, and L. Chadwick
Tetrahedron, 1968, 2, 877.
46. Polyfluoroheterocyclic Compounds. Part 11. Factors Controlling the Orientation of Nucleophilic
Substitution in Octafluoro-3,3'-bipyridyl and Related Compounds
R.D. Chambers, D. Lomas, and W.K.R. Musgrave
J. Chem. Soc. (C), 1968, 625.
47. Polyfluoroheterocyclic Compounds. Part 12. Preparation and Nucleophilic Substitution of
Tetrafluoropyridazine
R.D. Chambers, J.A.H. MacBride, and W.K.R. Musgrave
J. Chem. Soc. (C), 1968, 2116.
48. Polyfluoroheterocyclic Compounds. Part 13. Preparation and Nucleophilic Substitution Reactions
of Polyfluoro-2,2'-bipyridyls
R.D. Chambers, D. Lomas, and W.K.R. Musgrave
Tetrahedron, 1968, 24, 5663.
49. Polyfluoroheterocyclic Compounds. Part 14. Some Reactions of Tetrafluoroisonicotinic Acid and
Pentafluoro-benzoic Acid
R.D. Chambers, C.A. Heaton, and W.K.R. Musgrave
J. Chem. Soc. (C), 1968, 1933.

50. Polyfluoroheterocyclic Compounds. Part 15 Formation and Nucleophilic Substitution of Polyfluoropyridazinium Cations
R.D. Chambers, J.A.H. MacBride, and W.K.R. Musgrave
J. Chem. Soc. (C), 1968, 2989.
51. Preparation and Nucleophilic Substitution of Hexafluoroquinovoline
C.G. Allison, R.D. Chambers, J.A.H. MacBride, and W.K.R. Musgrave
Chem. and Ind., 1968, 1402.
52. Reactions Involving Fluoride Ion. Part 1 The Polyfluoroalkylation of Fluorinated Aromatic Systems
R.D. Chambers, J.A. Jackson, W.K.R. Musgrave, and R.A. Storey
J. Chem. Soc. (C), 1968, 2221.
53. Polyfluoroaryl Organometallic Compounds. Part 6 Some Reactions of Pentafluorophenyl- and Orthobromotetrafluoro-phenyl-Organometallic Compounds
R.D. Chambers, J.A. Cunningham, and D.A. Pyke
Tetrahedron, 1968, 24, 2783.
54. Polyfluoroaryl Organometallic Compounds. Part 7 Synthesis and Nucleophilic Substitution in Octafluorodibenzo-thiophen and in Octafluorothianthren
R.D. Chambers, J.A. Cunningham, and D.J. Spring
Tetrahedron, 1968, 24, 3997.
55. Polyfluoroaryl Organometallic Compounds. Part 8 Synthesis of and Nucleophilic Substitution in Octafluorodibenzo-furan
R.D. Chambers, J.A. Cunningham, and D.J. Spring
J. Chem. Soc. (C), 1968, 1560.
56. Polyfluoroaryl Organometallic Compounds. Part 9. Reactions of Polyfluoroaryllithium with Dimethyl Carbonate Octafluorofluoren-9-one
R.D. Chambers and D.J. Spring
J. Chem. Soc. (C), 1968, 2394.

1969

57. The Isomerism of Perfluoropyridazines to Perfluoropyrimidines and to Perfluoropyrazines
C.G. Allison, R.D. Chambers, Yu. A. Cheburkov, J.A.H. MacBride, and W.K.R. Musgrave
Chem. Comms., 1969, 1200.
58. Rotational Isomers in Polyfluoroaromatic Compounds
R.D. Chambers, J.A. Jackson, and W.K.R. Musgrave
Chem. Comms., 1969, 178.
59. Polyfluoroheterocyclic Compounds. Part 16 Tetrafluoropyridine-3-and-4-carbaldehydes and some Derivatives of the latter
R.D. Chambers, C.A. Heaton, and W.K.R. Musgrave
J. Chem. Soc. (C), 1969, 1700.

60. A New Aromatic Rearrangement
R.D. Chambers, R.P. Corbally, J.A. Jackson, and W.K.R. Musgrave
Chem. Comms., 1969, 127.
61. Preparation of Geometric Isomers of Some Polyfluoro-2-butenes
R.D. Chambers and A.J. Palmer
Tetrahedron, 1969, 25, 1217.
62. Polyfluoroaryl Organometallic Compounds. Part 10. Nucleophilic Substitution in Octafluorofluoren-9-one
R.D. Chambers and D.J. Spring, Tetrahedron, 1969, 25, 565.
63. Polyfluoroaryl Organometallic Compounds. Part 11: An Unusual Benzyne Reaction
R.D. Chambers and D.J. Spring
Tetrahedron Letts., 1969, 2481.

1970

64. Polyfluoroheterocyclic Compounds. Part 17. Preparation and Nucleophilic Substitution of Tetrafluoropyrazine and the Orientational Effect of Substituents in Polysubstitution
C.G. Allison, R.D. Chambers, J.A.H. MacBride, and W.K.R. Musgrave
J. Chem. Soc. (C), 1970, 1023.
65. Preparation and Nucleophilic Substitution of Hexafluoroquinazoline
C.G. Allison, R.D. Chambers, J.A.H. MacBride, and W.K.R. Musgrave, Tetrahedron Letts., 1970, 1979.
66. Preparation and Nucleophilic Substitution of Hexafluorophthalazine
Tetrahedron Letts., 1970, 57.
67. Hexafluorocinnoline: Synthesis and Photochemical Isomerisation to Hexafluoro-quinazoline
R.D. Chambers, J.A.H. MacBride, and W.K.R. Musgrave
Chem. Comms., 1970, 739.
68. The Fluoride Ion-Catalysed Rearrangement of 3,6-Difluoro-4,5-bis(hexafluoroisopropyl)pyridazine
R.D. Chambers, Yu. A. Cheburkov, J.A.H. MacBride, and W.K.R. Musgrave
Chem. Comms., 1970, 1647.
69. F-F Coupling Constants in Some Perfluoroalkyl Fluoroaromatic Compounds. The Signs of 'Through-Space' Coupling Constants
R.D. Chambers, L.H. Sutcliffe, and G.J.T. Tiddy
Trans. Farad. Soc., 1970, 66, 1025.
70. Reactions Involving Fluoride Ion. Part 2. Fluorine Magnetic Resonance Studies of Polyfluoroalkyl Aromatic Compounds
R.D. Chambers, J.A. Jackson, and W.K.R. Musgrave
Tetrahedron, 1970, 26, 71.
71. Fluoride-ion-initiated Reactions of Acetylenes
R.D. Chambers, W.K.R. Musgrave, and S. Partington

Chem. Comms., 1970, 1050.

72. Hexafluoroacetone-Hydrogen Peroxide: A New Peroxyacid
R.D. Chambers and M. Clark
Tetrahedron Letts., 1970, 2741.

1971

73. Polyfluoroheterocyclic Compounds. Part 18. Reactions of Heptafluoroquinoline and -isoquinoline and Pentafluoropyridine with Hydrogen Halides
R.D. Chambers, M. Hole, W.K.R. Musgrave, and J.G. Thorpe
J. Chem. Soc., 1971, 61.
74. Polyfluoroheterocyclic Compounds. Part 19. Relative Base Strengths of Some Polyfluoroaryl-Nitrogen Heterocyclic Systems
S.L. Bell, R.D. Chambers, W.K.R. Musgrave, and J.G. Thorpe
J. Fluorine Chem., 1971/72, 1, 51.
75. Polyfluoroheterocyclic Compounds. Part 20. Preparation and Nucleophilic Substitution of Hexafluoroquinoxaline
C.G. Allison, R.D. Chambers, J.A.H. MacBride, and W.K.R. Musgrave
J. Fluorine Chem., 1971/72, 1, 59.
76. Polyfluoroheterocyclic Compounds. Part 21. Thermal Rearrangement of Perfluoropyridazine and Perfluoroalkylpyridazines to Pyrimidines
R.D. Chambers, J.A.H. MacBride, and W.K.R. Musgrave
J. Chem. Soc. (C), 1971, 3384.
77. A *para*-Bonded Isomer of an Aromatic Diazine
R.D. Chambers, W.K.R. Musgrave, and K.C. Srivastava
Chem. Comms., 1971, 264.
78. Kinetic *versus* Thermodynamic Control of Products in some Nucleophilic Aromatic Substitution Reactions
R.D. Chambers, R.P. Corbally, M.Y. Gribble, and W.K.R. Musgrave
Chem. Comms., 1971, 1345.
79. Reactions Involving Fluoride Ion. Part 3. Preparation, Rearrangement, and Hydrolysis of Perfluoroisopropyl-pyridazines
R.D. Chambers, Yu. A. Cheburkov, J.A.H. MacBride, and W.K.R. Musgrave
J. Chem. Soc., 1971, 532.
80. Polyfluoroaryl Organometallic Compounds. Part 12. Nucleophilic Substitution in Octafluorodibenzothiophene and Related Compounds
R.D. Chambers and D.J. Spring
Tetrahedron, 1971, 27, 669.

81. Polyfluoroaryl Organometallic Compounds Part 13. Pentachlorophenylpentafluorophenylmercury
R.D. Chambers and D.J. Spring
J. Organometallic Chem. 1971. 21. 613.
82. Polyfluoroaryl Organometallic Compounds Part 14. 5-PhenylOctafluorodibenzophosphole
R.D. Chambers and D.J. Spring
J. Fluorine Chem. 1971. 72. 1. 309.

1972

83. Experimental and Theoretical Studies of the Molecular Core Binding Energies of Some Six-Membered Ring Nitrogen Heterocycles and their Perchloro- and Perfluoro-Derivatives
D.T. Clark, R.D. Chambers, D. Kilcast, and W.K.R. Musgrave
JCS Farad. Trans. II. 1972. 68. 309.
84. Polyfluoroaryl Organometallic Compounds Part 15. Synthesis and Rearrangement of Polyhalogenoaryl α -Diketones
R.D. Chambers, M. Clark, and D.J. Spring
JCS Perkin I. 1972. 2464.
85. Polyfluoroaryl Organometallic Compounds. Part 16. Reactions of Organolithium Compounds with Halogenated Benzils
R.D. Chambers and M. Clark
JCS Perkin I. 1972. 2469.
86. Reactions Involving Fluoride Ion. Part 4. Synthesis and Rearrangement of Perfluoroisopropylpyridines
R.D. Chambers, R.P. Corbally, and W.K.R. Musgrave
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CORE TERMS: layer, nozzle, non-wetting, orifice, photoresist, thickness, ink, substrate, droplet, masking ...

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CORE TERMS: film, fuse, etching, insulation, stopper, window, polysilicon, layer, thickness, sio ...

6. 6397596 , June 4, 2002 , Self contained generation system using waste heat as an energy source, Boyle, Heather - 200 W. 34th St. #856, Anchorage, Alaska, 99503, 846915

CORE TERMS: ammonia, condenser, turbine, exhaust gas, compressor, energy, vapor, heat, propane, heat energy ...

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CORE TERMS: beam, phase, mirror, comb, laser, teeth, input, amplifier, mixing,

conjugator ...

8. 6381967 , May 7, 2002 , Cryogenic freezing of liquids. Craig, Randall H - 3200 N. Dobson Rd., #F7, Chandler, Arizona, 85224. 486447

CORE TERMS: refrigerant, sample, freezing, droplet, frozen, argon, nebulizer, nebulized, cell, slushed ...

9. 6372649 , April 16, 2002 , Method for forming multi-level metal interconnection, Han, Min Sub - Seoul, South Korea (KR); Lee, Tae Gook - Kyoungki-do, South Korea (KR); Kim, Wan Soo - Seoul, South Korea (KR); Kang, Byoung Ju - Kyoungki-do, South Korea (KR). 09599172. Hyundai Electronics Industries Co., Ltd., Kyoungki- do, South Korea (KR), 03

CORE TERMS: layer, interconnection, insulating, film, plug, hole, etched, spacer, etching, planarization ...

10. 6367264 , April 9, 2002 , Hybrid low temperature liquid carbon dioxide ground support system, Tyree, Jr., Lewis - 115 Liberty Hall Rd., Lexington, Virginia, 24450, 09668877

CORE TERMS: co2, vessel, refrigeration, tank, storage, carbon dioxide, vapor, cooling, valve, minus ...

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CORE TERMS: substituted, catalyst, compound, composition, silica-alumina, alumina, fluorided, silica, aliphatic, polymer ...

12. 6348367 , February 19, 2002 , Method for manufacturing a semiconductor device, Ohtani, Hisashi - Kanagawa, Japan (JP); Adachi, Hiroki - Kanagawa, Japan (JP); Miyanaga, Akiharu - Kanagawa, Japan (JP); Takayama, Toru - Kanagawa, Japan (JP), 08861001, Semiconductor Energy Laboratory Co., Ltd., Kanagawa- ken, Japan (JP), 03

CORE TERMS: silicon, film, nickel, catalyst, amorphous, region, oxide, substrate, crystallization, concentration ...

13. 6347525 , February 19, 2002 , Ice seeding apparatus for cryopreservation systems, Cosman, Maury D. - Woburn, Massachusetts, 09753168, Organogenesis Inc., Canton, Massachusetts, 02

CORE TERMS: ice, cell, tissue, rack, gas, seeding, chamber, rail, sprayrail, cryopreservation ...

14. 6306432 , October 23, 2001 , High and low load formulations of IGF-I in multivesicular liposomes, Shirley, Bret - Concord, California; Hora, Maninder - Danville, California; Ye, Qiang - San Diego, California; Katre, Nandini - Solana Beach, California; Asherman, John - San Diego, California, 08925531, Chiron Corporation, Emeryville, California, 02; SkyePharma Inc., San Diego, California, 02

CORE TERMS: aqueous, osmolarity, liposome, loading, lipid, concentration,

osmotic, excipient, suspension, load ...

15. 6301077 , October 9, 2001 , Thin film magnetic head and method of manufacturing the same, Sasaki, Yoshitaka - Tokyo, Japan (JP), 09298179, TDK Corporation, Tokyo, Japan (JP), 03

CORE TERMS: layer, magnetic, thin film, pole, chip, insulating, seed, coil, photoresist, thickness ...

16. 6300369 , October 9, 2001 , Hydroxy-kojic acid skin peel, Ancira, Margaret - 6850 N. 83rd St., Scottsdale, Arizona, 85250, 09299788

CORE TERMS: peel, acid, skin, superficial, peeling, phenol, kojic, gram, composition, alpha ...

17. 6282943 , September 4, 2001 , Apparatus and method for detecting substances, Sanders, Donald G. - Combine, Texas; Jennings, Gary Stephen - Garland, Texas, 09387081, Basic Resources, Inc., Dallas, Texas, 02

CORE TERMS: coupling, pole, probe, detector, retractable, vent, sewer, segment, natural gas, elastic ...

18. 6277143 , August 21, 2001 , Brain cooling apparatus and method for cooling the brain, Klatz, Ronald M. - Chicago, Illinois; Goldman, Robert M. - Chicago, Illinois, 09359652, Life Science Holdings, Inc., Chicago, Illinois, 02

CORE TERMS: coolant, helmet, brain, shell, cooling, fluid, gas, cavity, bladder, patient ...

19. 6276158 , August 21, 2001 , Heat exchange equipment, Lowes, Albert Robert - Doven, Great Britain (GB); Luxford, Mark Steven - Kent, Great Britain (GB), 09357757, Eaton-Williams Group Limited, Kent, Great Britain (GB), 03

CORE TERMS: coil, valve, fluid, heat, outdoor, port, heat exchange, conduit, compressor, exchanger ...

20. 6272855 , August 14, 2001 , Two cycle heat engine, Leonardi, Joseph - 50 Hickory St., Bridgeport, Connecticut, 06610, 09592628

CORE TERMS: chamber, piston, heat engine, vapor, heat, flywheel, cooling, tube, low boiling, coupled ...

21. 6217632 , April 17, 2001 , Molten aluminum treatment, Megy, Joseph A. - 347 Birch St., Imperial, Pennsylvania, 15126, 09340529

CORE TERMS: aluminum, titanium, grain, molten, reactive, compound, alloy, refining, nuclei, gas ...

22. 6216473 , April 17, 2001 , Method of recovering a coolant, apparatus therefor, tool therefor and three-way valve for recovering a pressurized fluid, Arai, Tsuneo - 3-25 Midorimachi, Tokuyama-Shi, Yamaguchi-Ken, Japan (JP), 09229325

CORE TERMS: denote, valve, fluid, coolant, socket, recovering, recovered, compressor, coupler, pressurized ...

23. 6207544 , March 27, 2001 , Method of fabricating ultra thin nitride spacers and device incorporating same, Nguyen, Thien T. - Austin, Texas; Gardner, Mark

I. - Cedar Creek, Texas; May, Charles E. - Gresham, Oregon, 09207808, Advanced Micro Devices, Inc., Austin, Texas, 02

CORE TERMS: gate, spacer, etching, sidewall, silicon, layer, nitride, comprised, dielectric, substrate ...

24. 6201221 , March 13, 2001 , Method and apparatus for heat regulating electronics products, LaGrotta, James T. - Boonton Township, New Jersey; LaGrotta, Richard T. - Livingston, New Jersey, 09397031, Lucent Technologies, Inc., Murray Hill, New Jersey, 02

CORE TERMS: electronic, chamber, heat, wireless, station, heater, cooling, fin, heating, environmental ...

25. 6198116 , March 6, 2001 , Complementary heterostructure integrated single metal transistor fabrication method, Cerny, Charles L. A. - Huber Heights, Ohio; Bozada, Christopher A. - Dayton, Ohio; DeSalvo, Gregory C. - Beavercreek, Ohio; Ebel, John L. - Beavercreek, Ohio; Dettmer, Ross W. - Dayton, Ohio; Gillespie, James K. - Cedarville, Ohio; Havasy, Charles K. - Laurel, Maryland; Jenkins, Thomas J. - Fairborn, Ohio; Nakano, Kenichi - Beavercreek, Ohio; Pettiford, Carl I. - Beavercreek, Ohio; Quach, Tony K. - Kettering, Ohio; Sewell, James S. - Kettering, Ohio; Via, G. David - Dayton, Ohio, 09059890, The United States of America as represented by the Secretary of the Air Force, Washington, DC, 06

CORE TERMS: layer, transistor, gate, mask, photoresist, region, ion, silicon, complementary, nitride ...

26. 6198069 , March 6, 2001 , Laser beam temporal and spatial tailoring for laser shock processing, Hackel, Lloyd - Livermore, California; Dane, C. Brent - Livermore, California, 09133590, The Regents of the University of California, Oakland, California, 02

CORE TERMS: beam, laser, phase, polarization, pulse, mirror, medium, lens, ring, polarizer ...

27. 6187288 , February 13, 2001 , Stable microbubble suspensions as enhancement agents for ultrasonic echography, Schneider, Michel - Troinex, Switzerland (CH); Brochot, Jean - Feigeres, France (FR); Puginier, Jerome - Le Chable-Beaumont, France (FR); Yan, Feng - Geneva, Switzerland (CH), 09151651, Bracco International B.V., Amsterdam, Netherlands (NL), 03

CORE TERMS: phospholipid, suspension, microbubble, bubble, concentration, surfactant, gas, aqueous, preparation, carrier ...

28. 6182643 , February 6, 2001 , Internal combustion engine with cooling circuit, Canopy, Donald D. - Rome, Illinois, 09494490, Caterpillar Inc., Peoria, Illinois, 02

CORE TERMS: heat, cooling, combustion, tube, engine, cylinder, thermal, exhaust, coil, piston ...

29. 6179978 , January 30, 2001 , Mandrel for forming a nozzle plate having a non-wetting surface of uniform thickness and an orifice wall of tapered contour, and method of making the mandrel, Hirsh, Jeffrey I. - Rochester, New York; Mycek, Edwin A. - Scottsville, New York; Lapa, Larry L. - Rochester, New York, 09249831, Eastman Kodak Company, Rochester, New York, 02

CORE TERMS: layer, nozzle, orifice, non-wetting, photoresist, thickness, ink,

substrate, droplet, masking ...

30. 6174499 , January 16, 2001 , Method and apparatus for treatment of freon gas, Harashima, Keiichi - Tokyo, Japan (JP), 09244015, NEC Corporation, Tokyo, Japan (JP), 03

CORE TERMS: gas, plasma, unreacted, chamber, chemically, etching, freon, activated, holder, reactant ...

31. 6173578 , January 16, 2001 , Air conditioning for cooling vehicle engine and providing cooling inside the vehicle, Al-Otaibi, Saidan Sh. M. - P.O. Box 32296, Riyadh 11428, Saudi Arabia (SA), 09307951

CORE TERMS: radiator, engine, evaporator, installed, air conditioning, condenser, pipe, freon, suction pipe, compressor ...

32. 6164088 , December 26, 2000 , Method for recovering condensable gas from mixed gas and condensable gas recovering apparatus , Moriguchi, Tetsuo, Tokyo, JPX; Hamano, Suenobu, Tokyo, JPX, 00208012, Mitsubishi Denki Kaishushiki Kaisha, Tokyo, JPX

CORE TERMS: gas, mixed, separator, condensable, sub. recovering, adsorption, incondensable, adsorbent, cooler ...

33. 6144553 , November 7, 2000 . Refrigeration cooled disk storage assembly. , Hileman, Vince P., San Jose, CA; Harpell, Gary A., Menlo Park, CA, 00150279, Sun Microsystems, Inc., Palo Alto, CA

CORE TERMS: drive, heat, disk, disk drive, storage, air flow, refrigeration, enclosure, rear, chilled ...

34. 6142214 , November 7, 2000 , Method for altering the temperature of a premises and device for carrying out said method , Liljedahl, Hans Arne Bertil, Planvagen Lund, SEX, 00043118

CORE TERMS: floor, layer, intermediate, conduit system, cool, cooled, night, cooling, heating, coolant ...

35. 6139818 , October 31, 2000 , Method of making ultrasonic contrast agent , Bichon, Daniel, Montpellier, FRX; Bussat, Philippe, Collonges S/Saleve, FRX; Schneider, Michel, Troinex, CHX, 08910149, Bracco International B.V., Amsterdam, NLX

CORE TERMS: microballoon, polymer, phase, membrane, aqueous, suspension, sup, carrier, hydrophobic, sub ...

36. 6137209 , October 24, 2000 , High power ultrasonic transducer , Nilsson, Bo, P.O. Box 3139 K Graso S-740 71 Oregrung, SEX; Dahlberg, Hakan, Berghemsgatan 50 S-804 27 Gavle, SEX, 00348308

CORE TERMS: transducer, piezoelectric, cooling, gas, ultrasonic, sub. channel, housing, hole, disk ...

37. 6134912 , October 24, 2000 , Method and system for separation of a mixed gas containing oxygen and chlorine . Sauer, Richard A., Hinsdale, IL, 00238027, Air Liquide America Corporation, Houston, TX

CORE TERMS: gas, mixed, oxygen, chlorine, refrigerant, separator, fraction,

oxyg n-enriched, conduit, bed ...

38. 6133157 , October 17, 2000 , Dry etching method of a silicon thin film , Sakurai, Takehisa, Kusatsu, JPX; Ujimasa, Hitoshi, Higashiosaka, JPX; Kawai, Katsuhiro, Yamatotakada, JPX; Ban, Atsushi, Nara, JPX; Kajitani, Masaru, Osaka, JPX; Katayama, Mikio, Ikoma, JPX, 00119993, Sharp Kabushike Kaisha, Osaka, JPX

CORE TERMS: layer, gas, sup, etching, silicon, freon-14, etch, electrode, hydrogen chloride, concentration ...

39. 6123922 , September 26, 2000 , Resilient deformable microballoons for echographic imaging , Bichon, Daniel, Montpellier, FRX; Bussat, Philippe, Collonges S/Saleve, FRX; Schneider, Michel, Troinex, CHX, 08929274, Bracco International B.V., Amsterdam, NLX

CORE TERMS: microballoon, polymer, phase, membrane, aqueous, hydrophobic, suspension, carrier, sup, sub ...

40. 6123523 , September 26, 2000 , Gas-dispersion device , Cooper, Paul V., 11247 Lake Forest Dr. Chesterland, OH 44026, 00152168

CORE TERMS: gas, rotor, shaft, molten, pump, metal-transfer, chamber, stream, coupling, conduit ...

41. 6119467 , September 19, 2000 , Method and installation for continuous production of whipped ice , Zusman, Vladimir, Beer Sheva, ILX; Kayem, Yuri, Beer Sheva, ILX; Menin, Boris, Beer Sheva, ILX, 08974833, Brontec U.S.A., Inc., Gilford, NH

CORE TERMS: evaporator, ice, refrigerant, whipped, nuclei, gas, sub, cooling, bubble, heat ...

42. 6119445 , September 19, 2000 , Method of and apparatus for augmenting power produced from gas turbines , Bronicki, Lucien Y., Yavne, ILX; Gilon, Yoel, Jerusalem, ILX; Sinai, Joseph, Ramat Gan, ILX; Fisher, Uriel, Haifa, ILX; Bugdagzad, Shlomo, Reshon Lezeon, ILX, 08764337, Ormat Industries Ltd., Yavne, ILX

CORE TERMS: cooler, ambient, precompressor, cooling, compressor, power plant, cycle, gas turbine, turbine, precompressed ...

43. 6113754 , September 5, 2000 , Sputtering apparatus having a target backing plate equipped with a cooling line and sputtering method using the same , Oh, Jung-suk, Seoul, KRX; Park, Yoon-sei, Seoul, KRX; Kwag, Gyu-hwan, Suwon, KRX, 00313197, Samsung Electronics Co., Ltd., Suwon, KRX

CORE TERMS: gas, cooling, target, sputtering, chamber, cooling water, backing, wafer, port, sccm ...

44. 6110443 , August 29, 2000 , Dry stable formation to produce microbubble suspension for ultrasound , Schneider, Michel, Troinex, CHX; Bichon, Daniel, Montpellier, FRX; Bussat, Philippe, Collonges S/Saleve, FRX; Puginier, Jerome, Le Chable-Beaunont, FRX; Hybl-Sutherland, Eva, Geneva, CHX, 08853936, Bracco International N.V., NLX

CORE TERMS: microbubble, suspension, bubble, liposome, surfactant, gas, aqueous, carrier, sup, ultrasonic ...

45. 6106858 , August 22, 2000 , Modulation of drug loading in multivesicular liposomes , Ye, Qiang, San Diego, CA; Katre, Nandini, Solana Beach, CA; Sankaram, Mantripragada, San Diego, CA, 08925532, SkyePharma, Inc., San Diego, CA

CORE TERMS: aqueous, loading, liposome, osmolarity, lipid, excipient, osmotic, concentration, biologically, encapsulated ...

46. 6087453 , July 11, 2000 , Vulcanizable rubber composition and seal for freon , Nishimura, Koichi, Yokohama, JPX, 00117188, Nippon Zeon Co., Ltd., Tokyo, JPX

CORE TERMS: rubber, copolymer, acrylate, unsaturated, composition, resistance, compound, acid, freon, carboxylic acid ...

47. 6076497 , June 20, 2000 , Pressurized containers using phase change system , Ferralli, Michael W., Fairview, PA, 00014907, Technology Licensing Company, Pittsburgh, PA

CORE TERMS: oil, engine, gas, tank, fluid, pressurized, container, accumulator, condensed, lubrication ...

48. 6076496 , June 20, 2000 , Captive bag engine pre-oiling apparatus , Ferralli, Michael W., Fairview, PA, 08907228, Technology Licensing Company, Pittsburgh, PA

CORE TERMS: oil, engine, accumulator, lubrication, gas, volume, tank, combustion, bag, condensable ...

49. 6056943 , May 2, 2000 , Methods of ultrasound imaging using phospholipid stabilized microbubbles , Schutt, Ernest G., San Diego, CA, 00092351, Alliance Pharmaceutical Corp., San Diego, CA

CORE TERMS: bubble, gas, microbubble, surfactant, ultrasound, harmonic, imaging, frequency, phase, perfluorohexane ...

50. 6056791 , May 2, 2000 , Process for the production of particles or powders , Weidner, Eckhard, Am Dorfweiher 9 91056 Erlangen, DEX; Knez, Zelijko, Wilsonova, 15 62000 Maribor, SIX; Novak, Zoran, Askerceva 11 62000 Maribor, SIX, 08965805

CORE TERMS: fluid, compressible, particle, gas, mixture, melting point, decompression, supercritical, powder, crystallization ...

51. 6053013 , April 25, 2000 , Apparatus and method for overcladding optical fiber preform rod and optical fiber drawing method , Oh, Seung-Hun, Kyongsangbuk-do, KRX; Namkoong, Ki-Un, Taegukwangyok-shi, KRX; Seo, Man-Seok, Kyonggi-do, KRX; Paek, Un-Chul, Kwangjukwangyok-shi, KRX; Oh, Kyung-Hwan, Seoul, KRX; Song, Ghie-Hugh, Seoul, KRX; Do, Mun-Hyun, Kyongsangbuk-do, KRX; Chung, Young-Joo, Kwangjukwangyok-shi, KRX, 00049030, SamSung Electronics Co., Ltd., Kyungki-do, KRX

CORE TERMS: tube, preform, glass, rod, fiber, optical, furnace, overcladding, chuck, burner ...

52. 6052987 , April 25, 2000 , Non-propellant fluid cooled space craft rocket engine , Dressler, Gordon A., Manhattan Beach, CA, 08970915, TRW Inc., Redondo Beach, CA

CORE TERMS: coolant, propellant, heat, engine, valve, heat exchanger, fluid,

rocket engine, rocket, conduit ...

53. 6030412 , February 29, 2000 , Apparatus and method for cooling the brain, brain stem and associated neurologic tissues , Klatz, Ronald M., Chicago, IL; Goldman, Robert M., Chicago, IL, 08901164, Life Science Holdings, Inc., Chicago, IL

CORE TERMS: enveloping, brain, coolant, cooling, shell, tissue, patient, neurologic, cavity, fluid ...

54. 6024902 , February 15, 2000 , Injection molded paired thermoplastic spectacle lenses suited for fully automated dip hardcoating , Maus, Steven M., Osseo, MN; Galic, George J., Columbia Heights, MN, 00009151, Galic Maus Ventures, Columbia Heights, MN

CORE TERMS: lens, lenses, molded, mold, molding, tab, paired, polycarbonate, dipcoating, parting ...

55. 6020226 , February 1, 2000 , Single layer integrated metal process for enhancement mode field-effect transistor , Cerny, Charles L. A., Huber Heights, OH; Bozada, Christopher A., Dayton, OH; DeSalvo, Gregory C., Beavercreek, OH; Ebel, John L., Beavercreek, OH; Dettmer, Ross W., Dayton, OH; Gillespie, James K., Cedarville, OH; Havasy, Charles K., Laurel, MD; Jenkins, Thomas J., Fairborn, OH; Nakano, Kenichi, Beavercreek, OH; Pettiford, Carl I., Beavercreek, OH; Quach, Tony K., Kettering, OH; Sewell, James S., Kettering, OH; Via, G. David, Dayton, OH, 00059892, The United States of America as represented by the Secretary of the Air Force, Washington, DC

CORE TERMS: layer, transistor, mask, gate, photoresist, silicon, ion, region, nitride, sequence ...

56. 6018961 , February 1, 2000 , Coolant apparatus, and associated method, for cooling an article , Venture, Darrell M., 100 Wilmington Cir. Clovis, NM 88101; Venture, Jr., Darrell M., 100 Wilmington Cir. Clovis, NM 88101, 00112431

CORE TERMS: refrigeration, coolant, refrigerant, evaporator, tube, compartment, coil, coiled, chilled, secondary-side ...

57. 6016023 , January 18, 2000 , Tubular ultrasonic transducer , Nilsson, Bo. Oregrund, SEX; Dahlberg, Hakan, Langbackavagen, SEX, 00075833, Ultra Sonus AB, Oregrund, SEX

CORE TERMS: transducer, piezoelectric, gas, ultrasonic, cooling, tube, tubular, sub, thick walled, fluid ...

58. 6013580 , January 11, 2000 , Preprocessing method of metal film forming process , Yanagida, Toshiharu, Kanagawa, JPX, 08969698, Sony Corporation, JPX

CORE TERMS: plasma, processing, film, substrate, formation, preprocessing, bias, processed, voltage, resist ...

59. 6013153 , January 11, 2000 , Process for surface treatment of vulcanized rubber and process for production of rubber-based composite material , Koinuma, Hideomi, Tokyo, JPX; Kubano, Yukihiro, Kokubunji, JPX; Yoshikawa, Masato, Kodaira, JPX; Kato, Nobuko, Kodaira, JPX; Naito, Kazuo, Kawasaki, JPX, 00060255, Bridgestone Corporation, Tokyo, JPX; Hideomi Koinuma, Tokyo, JPX

CORE TERMS: vulcanized rubber, plasma, sub, gas, region, plasma-generating,

rubber, generating, sup, cathode ...

60. 5993850 , November 30, 1999 , Preparation of multivesicular liposomes for controlled release of encapsulated biologically active substances , Sankaram, Mantripragada B., San Diego, CA; Kim, Sinil, Solana Beach, CA, 08305158, SkyePharma Inc., San Diego, CA

CORE TERMS: liposome, multivesicular, aqueous, lipid, osmolarity, concentration, biologically, cytarabine, encapsulated, osmotic ...

61. 5988438 , November 23, 1999 , Apparatus for rapid inflation of inflatable object and related method , Lewis, Donald J., Scottsdale, AZ; Olander, Donald E., Tempe, AZ; Magenot, Michael C., Phoenix, AZ, 00039261. Universal Propulsion Company, Inc., Phoenix, AZ

CORE TERMS: gas, first stage, liquified, inflatable, pyrotechnic, tube, housing, inflator, volume, gases ...

62. 5986133 , November 16, 1999 , Recovery of fermentation salts from dilute aqueous solutions , Holtzapple, Mark T., College Station, TX; Davison, Richard R., Bryan, TX; Luettich, Torsten, Essen, DEX, 08885841, The Texas A & M University System, College Station, TX

CORE TERMS: amine, phase, salt, aqueous, mixer, fermentation, acid, separator, extraction, heat ...

63. 5985385 , November 16, 1999 , Fire and heat protection wrap for conduits, cable trays, other electrical transmission lines and gas and oil pipelines , Gottfried, Samuel, Riverdale, NY, 08862833, No Fire Technologies, Inc., Upper Saddle River, NJ

CORE TERMS: layer, transmission, thermal, wrapping, electrical, heat, cable, concentric, blanket, conduit ...

64. 5972987 , October 26, 1999 , Method for removing nits from hair , Reid, Lori Fox, Dayton, TN; Kross, Robert D., Bellmore, NY, 00270350, Lori Fox Reid, Dayton, TN

CORE TERMS: nit, hair, composition, dye, removal, lice, solvent, shaft, propellant, eggs ...

65. 5968654 , October 19, 1999 , Modification of polymeric substrates using dense or liquified gases , Sawan, Samuel P., Tyngsborough, MA; Spall, W. Dale, Los Alamos, NM; Lee, Hung Chang, Lowell, MA, 08713156, University of Massachusetts Lowell, Lowell, MA

CORE TERMS: polymeric, sub, substrate, fluorinated, compound, gamma, gas, sup, dense, fabric ...

66. 5962746 , October 5, 1999 , Process for preparing peroxides , Diffendall, George Francis, Wilmington, DE; Harding, Thomas William, Wilmington, DE; Hockman, Joseph Norman, Hockessin, DE; Krespan, Carl George, Wilmington, DE; Targett, Matthew John, Greenville, NC; Wheland, Robert Clayton, Wilmington, DE, 00128506, E. I. du Pont de Nemours and Company, Wilmington, DE

CORE TERMS: sub, aqueous, peroxide, organic, ultrasonic, min, stream, loaded, horn, mixer ...

67. 5962711 , October 5, 1999 , Hydrogenation of substrate and products manufactured according to the process , Harrod, Magnus, Alingsas, SEX; M. o slashed. ller, Poul, Aarhus, SEX, 08765622, Poul Moller Ledelses- OG Ingeniorradgivning APS, Arhus, DKX

CORE TERMS: catalyst, hydrogenation, sub. hydrogen, solvent, fatty, reactor, mixture, gas, substrate ...

68. 5955823 , September 21, 1999 , High power ultrasonic transducer , Nilsson, Bo, Oregrund, SEX; Dahlberg, Hakan, Gavle, SEX, 00076112, Ultra Sonus AB, Oregrund, SEX

CORE TERMS: transducer, piezoelectric, cooling, gas, ultrasonic, sub, channel, housing, hole, disk ...

69. 5954058 , September 21, 1999 , Power supply for implantable device , Flaherty, Christopher J., Topsfield, MA, 08821602, Strato/Infusaid, Inc., Norwood, MA

CORE TERMS: energy, chamber, valve, reservoir, electrical, fluid, converter, volume, medicant, non-electrical ...

70. 5952748 , September 14, 1999 , High speed motor with two-phase cooling system , Boldlehnner, Hans-Georg, Graz, ATX, 08750799, Elin Motoren GmbH, Vienna, ATX

CORE TERMS: coolant, housing, cooling, rotor, laminations, bundle, heat, high-speed, gaseous, machine ...

71. 5947193 , September 7, 1999 , Heat pipe with embedded wick structure , Adkins, Douglas Ray, Albuquerque, NM; Shen, David S., Albuquerque, NM; Tuck, Melanie R., Albuquerque, NM; Palmer, David W., Albuquerque, NM; Grafe, V. Gerald, Corrales, NM, 08990555, Sandia Corporation, Albuquerque, NM

CORE TERMS: heat, wick, fluid, pipe, substrate, cell, working fluid, cruciform, semiclosed, capillary ...

72. 5939568 , August 17, 1999 , Accelerated catalysis of olefinic epoxidations , Sharpless, K. Barry, La Jolla, CA; Rudolph, Joachim, Krefeld, DEX, 08842732, The Scripps Research Institute, La Jolla, CA

CORE TERMS: sub, mol, acid, mmol, epoxidation, column, substrate, pyridine, aqueous, yellow ...

73. 5937979 , August 17, 1999 , Continuously variable fan drive clutch , Cummings, Gordon F., Rockford, IL, 08840483, Rockford Powertrain, Inc., Rockford, IL

CORE TERMS: clutch, fan, engine, drive, hub, housing, oil, cooling, piston, input ...

74. 5925024 , July 20, 1999 , Suction device with jet boost , Joffe, Michael A, 25 Alderbrook Ct. Wrentham, MA 02093, 08858817

CORE TERMS: nozzle, gas, compressed, suction, plume, particle, laser, compressed air, evacuation, jet ...

75. 5924304 , July 20, 1999 , Insulated holder for lunch boxes , Sanchez,

Lorraine, 44 Lenhome Dr. Cranford, NJ 07016, 08932399

CORE TERMS: holder, layer, insulated, container, beverage, cool, refrigerant, lunch, plastic, box ...

76. 5910544 , June 8, 1999 , Thermoplastic elastomer composition and process for production thereof and low permeability hose using the same , Ozawa, Osamu, Kanagawa, JPX; Kawazura, Tetsuji, Kanagawa, JPX; Kuroda, Noriaki, Kanagawa, JPX; Aoyagi, Yoshihiro, Kanagawa, JPX; Watanabe, Jiro, Kanagawa, JPX; Kawaguchi, Gou, Kanagawa, JPX, 08860251, The Yokohama Rubber Co., Ltd., Tokyo, JPX

CORE TERMS: thermoplastic, resin, elastomer, sup, composition, rubber, hose, nylon, gas, multidot ...

77. 5908610 , June 1, 1999 , Stable microbubble suspensions comprising saturated phospholipios for ultrasonic echography , Schneider, Michel, Troinex, CHX; Brochot, Jean, Feigeres, FRX; Puginier, Jerome, Le Chable-Beaumont, FRX; Yan, Feng, Geneva, CHX, 08883592, Bracco International B.V., NLX

CORE TERMS: phospholipid, suspension, microbubble, bubble, concentration, sup, surfactant, gas, aqueous, preparation ...

78. 5893269 , April 13, 1999 , Crystal freezing apparatus , Fleming, Patrick J., Guilford, CT; Johnson, Gerald E., Bethany, CT; Friedman, Alan M., West Lafayette, IN, 00065784, Yale University, New Haven, CT

CORE TERMS: macromolecular, sample, gas, chamber, crystal, rod, freezing, vial, pin, holder ...

79. 5882042 , March 16, 1999 , Connector for freon hose assembly , Lacoste, Marvin, P.O. Box 292 Kiln, MI 39556, 08717827

CORE TERMS: connector, freon, elbow, width, threaded, bend, forefinger, thumb, counter, slide ...

80. 5880524 , March 9, 1999 , Heat pipe lid for electronic packages , Xie, Hong, Phoenix, AZ, 08851152, Intel Corporation, Santa Clara, CA

CORE TERMS: heat, pipe, package, cavity, substrate, semiconductor device, semiconductor, integrated, external, technology ...

81. 5863520 , January 26, 1999 , Method of echographic imaging using polymeric gas or air filled microballoons , Bichon, Daniel, Montpellier, FRX; Bussat, Philippe, Collonges S/Saleve, FRX; Schneider, Michel, Troinex, CHX, 08810447, Bracco International B.V., NLX

CORE TERMS: microballoon, polymer, phase, membrane, aqueous, suspension, carrier, hydrophobic, sup, sub ...

82. 5861473 , January 19, 1999 , Method for cleaning elastomeric articles , DeCrosta, Michelle A., Bethlehem, PA; Jagnandan, Indradat, West Orange, NJ, 08460818, Schering Corporation, Kenilworth, NJ

CORE TERMS: rubber, elastomeric, phthalate, supercritical, fluid, impurity, valve, propellant, cleaning, minute ...

83. 5855266 , January 5, 1999 , Fan clutch for vehicles configured for low engine speed , Cummings, III, Gordon F., Rockford, IL, 08841426, Rockford

Powertrain, Inc., Rockford, IL

CORE TERMS: clutch, fan, engine, drive, hub, oil, housing, cooling, rpm, piston ...

84. 5846443 , December 8, 1998 , Methods and apparatus for etching semiconductor wafers and layers thereof , Abraham, Susan C., San Jose, CA, 08678034, Lam Research Corporation, Fremont, CA

CORE TERMS: layer, sub, etch, gas, wafer, etching, composition, tin, photoresist, ratio ...

85. 5843289 , December 1, 1998 , Surface modification of medical implants , Lee, Dosuk D., Brookline, MA; Nagras, Atul, Somerville, MA, 08589409, Etex Corporation, Cambridge, MA

CORE TERMS: plasma, implant, titanium, reactive, gas, etch, species, sputtering, porous, bone ...

86. 5840275 , November 24, 1998 , Ultrasonic contrast agent with polymeric gas or air filled microballoons , Bichon, Daniel, Montpellier, FRX; Bussat, Philippe, Collonges S/Saleve, FRX; Schneider, Michel, Troinex, CHX, 08291542, Bracco International B.V., NLX

CORE TERMS: microballoon, polymer, phase, membrane, aqueous, carrier, suspension, sup, hydrophobic, sub ...

87. 5833971 , November 10, 1998 , Perfumed rocks , Baldwin, Stanley, 636 E. 92nd St. Brooklyn, NY 11236, 08876301

CORE TERMS: wax, composition, freshener, ingredient, patented invention, matrix, compound, perfume, dispensing, reservoir ...

88. 5833738 , November 10, 1998 , Specialty gas purification system , Carrea, Giovanni, Colorado Springs, CO; Warrick, Brian D., Colorado Springs, CO; Wickman, Lewis J., Colorado Springs, CO, 08609240, D.D.I. Ltd., British West Indies

CORE TERMS: sub, bed, getter, gases, purification, absorber, specialty, regeneration, gas, corrosive ...

89. 5832743 , November 10, 1998 , Shell and tube type evaporator , Adamovsky, Victor, 110 The Kingsway Toronto, Ontario, M8X 2V1, CAX, 08858906

CORE TERMS: shell, evaporator, tube, ammonia, refrigerant, fluid, heat, brine, velocity, vapour ...

90. 5810015 , September 22, 1998 , Power supply for implantable device , Flaherty, J. Christopher, Topsfield, MA, 08523083, Strato/Infusaid, Inc., Norwood, MA

CORE TERMS: energy, chamber, valve, electrical, reservoir, fluid, converter, volume, medicant, implanted ...

91. 5803172 , September 8, 1998 , Mine shaft and adit closure apparatus and method , Rajkovich, Richard A., Aurora, MN, 08613498, Foam Concepts, Inc., Hermantown, MN

CORE TERMS: foam, pouch, plug, borehole, shaft, adit, container, bulkhead, external, platform ...

92. 5800446 , September 1, 1998 , Article and method for dermabrading , Banuchi, Isabel M., Avenida Domanech 302 Hato Bay, PRX, 08807362

CORE TERMS: region, skin, dermabrasion, abrasive, finger, glove, phalange, distal, tip, epidermis ...

93. 5787715 , August 4, 1998 , Mixed gas refrigeration method , Dobak, III, John D., San Diego, CA; Radebaugh, Ray, Louisville, CO; Huber, Marcia L., Louisville, CO; Marquardt, Eric D., Lakewood, CO, 08698044, Cryogen, Inc., San Diego, CA; The United States of America as represented by the Secretary of Commerce, Washington, DC

CORE TERMS: mixture, fluid, heat exchanger, gas, enthalpy, high pressure, heat, low pressure, molar, cooling ...

94. 5783494 , July 21, 1998 , Selective dry etching method of undoped and doped silicon thin films , Sakurai, Takehisa, Kusatsu, JPX; Ujimasa, Hitoshi, Higashiosaka, JPX; Kawai, Katsuhiko, Yamatotakada, JPX; Ban, Atsushi, Nara, JPX; Kajitani, Masaru, Osaka, JPX; Katayama, Mikio, Ikoma, JPX, 08524886, Sharp Kabushiki Kaisha, Osaka, JPX

CORE TERMS: layer, gas, sup, etching, silicon, freon-14, etch, electrode, hydrogen chloride, concentration ...

95. 5773367 , June 30, 1998 , High throughput planarization etch process for interlayer oxide films between metals and pre-metals , Jen, Jang, San Jose, CA, 08709568, Integrated Device Technology, Inc., Santa Clara, CA

CORE TERMS: etch, oxide, layer, photoresist, selectivity, ordinate, parameters, completed, helium, oxygen ...

96. 5772906 , June 30, 1998 , Mechanism for uniform etching by minimizing effects of etch rate loading , Abraham, Susan C., San Jose, CA, 08652718, LAM Research Corporation, Fremont, CA

CORE TERMS: layer, etch, sub, chemistry, etching, loading, wafer, stack, plasma, chemical ...

97. 5769154 , June 23, 1998 , Heat pipe with embedded wick structure , Adkins, Douglas Ray, Albuquerque, NM; Shen, David S., Albuquerque, NM; Tuck, Melanie R., Albuquerque, NM; Palmer, David W., Albuquerque, NM; Grafe, V. Gerald, Corrales, NM, 08593596, Sandia Corporation, Albuquerque, NM

CORE TERMS: heat, wick, fluid, pipe, substrate, cell, working fluid, cruciform, semiclosed, capillary ...

98. 5768908 , June 23, 1998 , Adsorption type air conditioning using adsorbent and liquid refrigerant , Tanaka, Hisashi, Anjo, JPX; Shirota, Yuichi, Anjo, JPX; Sugi, Hikaru, Nagoya, JPX, 08723297, Nippondenso Co., Ltd., Aichi-pref., JPX

CORE TERMS: interior, ventilation, desiccant, refrigerant, path, tank, car, duct, exterior, tank-side ...

99. 5753073 , May 19, 1998 , High selectivity nitride to oxide etch process , Jen, Jang, San Jose, CA, 08611960, Integrated Device Technology, Inc., Santa

Clara, CA

CORE TERMS: layer, oxide, nitride, selectivity, etching, plasma, etcher, etch, parameter, film ...

100. 5749991 , May 12, 1998 , Method of affixing a tubular object , Aberg, Kenneth, Taby, SEX, 08571843, Niblick International AB, Taby, SEX

CORE TERMS: handgrip, coating, glue, shaft, rubber, polymer, adhesive, club, tubular, tape ...

101. 5745238 , April 28, 1998 , Apparatus and method for non-destructive inspection and/or measurement , Long, David Clifford, Wappingers Falls, NY; Pavelka, John Blake, Beacon, NY; Stroms, Karl Friedrich, Las Vegas, NV; Weiss, deceased, Gerhard, late of LaGrangeville, NY, 07995258, International Business Machines Corporation, Armonk, NY

CORE TERMS: membrane, flexible, inspection, inspected, foil, measurement, optical, film, reflective, chip ...

102. 5743108 , April 28, 1998 , Glycol chiller machine , Cleland, Robert K., 11051 Via El Merado Los Alamitos, CA 90720, 08726866

CORE TERMS: glycol, chiller, tank, coil, machine, replenishment, reservoir, partition, heat, chamber ...

103. 5738169 , April 14, 1998 , Heat exchanger with turbulated louvered fin, manufacturing apparatus and method , Stoyloff, Richard P., Woodhaven, MI, 08554482, Livernois Research & Development Co., Dearborn, MI

CORE TERMS: fin, louver, fluid, heat, turbulator, cutting edge, turbulence, louvered, roll, flat surface ...

104. 5729987 , March 24, 1998 , Desalinization method and apparatus , Miller, Joel V., 14340 Trinidad Rd. San Leandro, CA 94577, 08607383

CORE TERMS: vapor, refrigerant, heat, reservoir, region, cycle, trap, water vapor, salt water, potable ...

105. 5720843 , February 24, 1998 , Electrical interconnection method , Lee, Chang-hoon, Seoul, KRX, 08555332, Samsung Display Devices Co., Ltd., KRX

CORE TERMS: substrate, particle, conductive, electrical, interconnection, interconnected, paste, sprayed, terminals, depositing ...

106. 5707634 , January 13, 1998 , Finely divided solid crystalline powders via precipitation into an anti- solvent , Schmitt, William J., Kalamazoo, MI, 08488710, Pharmacia & Upjohn Company, Kalamazoo, MI

CORE TERMS: sub, solvent, anti-solvent, carrier, finely, supercritical, gas, injection, chamber, dissolved ...

107. 5686060 , November 11, 1997 , Stable microbubble suspensions comprising saturated phospholipids for ultrasound echography , Schneider, Michel, Troinex, CHX; Brochet, Jean, Feigeres, FRX; Puginier, Jerome, Le Chable-Beaumont, FRX; Yan, Feng, Meyrin, CHX, 08420677, Bracco International BV, NLX

CORE TERMS: phospholipid suspension, microbubble, bubble, concentration, sup,

surfactant, gas, aqueous, preparation ...

108. 5686031 , November 11, 1997 , Method for rapidly producing microporous and mesoporous materials , Coronado, Paul R., Livermore, CA; Poco, John F., Livermore, CA; Hrubesh, Lawrence W., Pleasanton, CA; Hopper, Robert W., Danville, CA, 08368823, Regents of the University of California, Oakland, CA

CORE TERMS: gel, drying, aerogel, supercritical, fluid, pore, vessel, microporous, mold, gelation ...

109. 5681360 , October 28, 1997 , Landfill gas recovery , Siwajek, Lawrence A., Bentleyville, OH; Cook, W. Jeffrey, Cleveland Heights, OH; Brown, William R., Brecksville, OH, 08371136, Acirion Technologies, Inc., Valley View, OH

CORE TERMS: carbon dioxide, methane, gas, contaminant, landfill, stream, column, absorbent, feed, processing ...

110. 5676906 , October 14, 1997 , Method of forming fine ceramics structure , Hirata, Yoshihiro, Osaka, JPX, 08531158, Sumitomo Electric Industries, Ltd., Osaka, JPX

CORE TERMS: mold, plastic, ceramic, fine, column, etching, vacuum, height, plasma, aspect ratio ...

111. 5672242 , September 30, 1997 , High selectivity nitride to oxide etch process , Jen, Jang, San Jose, CA, 08594930, Integrated Device Technology, Inc., Santa Clara, CA

CORE TERMS: layer, oxide, nitride, selectivity, plasma, etching, etcher, parameter, film, semiconductor ...

112. 5670175 , September 23, 1997 , Process for obtaining ultrapure egg oil and its use , Nawrocki, Werner C., Landvogtstrasse 4 Frankfurt am Main, D-60320, DEX, 08530349

CORE TERMS: viscous, phase, minute, revolutions, separated, egg yolk, separating, discarded, dried, skin ...

113. 5668251 , September 16, 1997 , Preparation of co-prepolymers from mono-substituted fluorinated monomers and tetrahydrofuran , Malik, Aslam A., Cameron Park, CA; Carlson, Roland P., Davis, CA, 08539405, Aerojet-General Corporation, Sacramento, CA

CORE TERMS: sub, prepolymer, monomer, sup, polyurethane, oxetane, elastomer, polymer, fluorinated, mixture ...

114. 5667045 , September 16, 1997 , Continuously variable fan drive clutch arrangement , Cummings, III, Gordon F., Rockford, IL, 08532226, Rockford Powertrain, Inc., Rockford, IL

CORE TERMS: clutch, fan, engine, drive, oil, housing, hub, piston, sump, input ...

115. 5663330 , September 2, 1997 , Process for the selective sulfoxide reduction of 3-hydroxy cephem and 3- methylene cepham compounds , Zenoni, Maurizio, Paullo, ITX; Leone, Mario, Pioltello, ITX; Donadelli, Giuseppe Alessandro, Casalpusterlengo, ITX, 08576905, ACS Dobfar S.p.A., Tribiano, ITX

CORE TERMS: sulfoxide, compound, cephem, sub, reduction, cepham, sulfur, chlorinating, oxidized, atom ...

116. 5660229 , August 26, 1997 , Plate type heat transfer device , Lee, Yung, Ontario, CAX; Park, Hern Jin, Ansan-si, KRX, 07999380, Sunkyong Industries Co., Ltd., Suwon, KRX

CORE TERMS: heat, working fluid, cell, thermosyphon, cavities, fluid, transferred, charging, upper surface, thermal ...

117. 5658551 , August 19, 1997 , Stable microbubbles suspensions injectable into living organisms , Schneider, Michel, Troinex, CHX; Bichon, Daniel, Montpellier, FRX; Bussat, Philippe, Collonges S/Saleve, FRX; Puginier, Jerome, Le Chable-Beaumont, FRX; Hybl-Sutherland, Eva, Wiesbaden, DEX, 08456385, Bracco International B.V., NLX

CORE TERMS: microbubble, suspension, bubble, liposome, surfactant, gas, aqueous, carrier, sup, ultrasonic ...

118. 5648122 , July 15, 1997 , Using electrical discharge surface preparation for thermal coatings , Rao, V. Durga Nageswar, Bloomfield Township, MI; Rose, Robert Alan, Groose Pointe Park, MI; Parsons, Robert S., Canton, MI; Yeager, David Alan, Plymouth, MI, 08314014, Ford Motor Company, Dearborn, MI

CORE TERMS: electrolyte, electrode, coating, electrical, gap, grit, passivation, hydrocarbon, bore, sparking ...

119. 5641016 , June 24, 1997 , Air-conditioning apparatus for vehicle use , Isaji, Akira, Nishio, JPX; Hotta, Naoto, Aichi-gun, JPX; Kondo, Yasuo, Okazaki, JPX; Takeo, Yuji, Toyoake, JPX; Tsuchiya, Shizuo, Gifu, JPX, 08364253, Nippondenso Co., Ltd., Kariya, JPX

CORE TERMS: refrigerant, heater, hot-water, heat, heat exchanger, combustion, hot water, switching, cycle, valve ...

120. 5637522 , June 10, 1997 , Method for producing a dynamic random access memory device which includes memory cells having capacitor formed above cell transistor and peripheral circuit for improving shape and aspect ratio of contact hole in the peripheral circuit , Ikemasu, Shinichirou, Kawasaki, JPX, 08438917, Fujitsu Limited, Takahashi, JPX

CORE TERMS: layer, film, sub, insulation, hole, sio, memory, cell, semiconductor, capacitor ...

121. 5633289 , May 27, 1997 , Process for molding an integral skin foam and a polyurethane material for molding the same , Nakamura, Michihiko, Aichi-ken, JPX; Ishikake, Masanao, Aichi-ken, JPX; Kawakita, Yukio, Aichi-ken, JPX; Mabuchi, Akira, Aichi-ken, JPX; Yamanaka, Osamu, Aichi-ken, JPX, 08213014, Toyoda Gosei Co., Ltd., Nishikasugai, JPX

CORE TERMS: polyurethane, cavity, mold, foaming, freon, skin, integral, vacuum, polyol, alcohol ...

122. 5616213 , April 1, 1997 , Method of dry etching InAlAs and InGaAs lattice matched to InP , Henderson, Timothy S., Richardson, TX; Plumton, Donald L., Dallas, TX, 08475722, Texas Instruments Incorporated, Dallas, TX

CORE TERMS: etching, sub, sccm, inalas, inp, substrate, minute, etch,

composition, reactive ...

123. 5605783 , February 25, 1997 , Pattern transfer techniques for fabrication of lenslet arrays for solid state imagers , Revelli, Joseph F., Rochester, NY; Hirsh, Jeffrey I., Rochester, NY; Jech, Joseph, Rochester, NY; Robello, Douglas R., Webster, NY; Barry, Stephen P., Albion, NY; Nutt, Alan C. G., Rochester, NY, 08369235, Eastman Kodak Company, Rochester, NY

CORE TERMS: layer, lenslet, thin, resin, inorganic, etch-stop, organic, transparent, photosensitive, mask ...

124. 5605673 , February 25, 1997 , Stabilized microbubble compositions for ultrasound , Schutt, Ernest G., San Diego, CA; Anderson, Charles D., Lebanon, CA; Evitts, David P., La Jolla, CA, 08284083, Alliance Pharmaceutical Corp., San Diego, CA

CORE TERMS: gas, bubble, microbubble, osmotic, sub, surfactant, gases, torr, membrane, mixture ...

125. 5603222 , February 18, 1997 , Cooling method and system for a compressor of a refrigerating system , Dube , Serge, 2595 Bourgogne St. Lazare, Quebec, CAX, 08490422

CORE TERMS: compressor, oil, refrigerant, heat exchanger, gas, cool, pump, cooling, freon, reservoir ...

126. 5597549 , January 28, 1997 , Stable microbubble suspensions as enhancement agents for ultrasound echography , Schneider, Michel, Troinex, CHX; Brochot, Jean, Feigeres, FRX; Puginier, Jerome, Le Chable-Beaumont, FRX; Yan, Feng, Geneva, CHX, 08414718, Bracco International B.V., NLX

CORE TERMS: phospholipid, suspension, microbubble, bubble, concentration, sup, surfactant, gas, aqueous, preparation ...

127. 5597515 , January 28, 1997 , Conductive, powdered fluorine-doped titanium dioxide and method of preparation , Kauffman, James W., Edmond, OK; Palmer, Bruce R., Edmond, OK, 08534678, Kerr-McGee Corporation, Oklahoma City, OK

CORE TERMS: titanium dioxide, sub, fluorine, fluoride, titanium, conductive, lattice, conductivity, titania, doped ...

128. 5595661 , January 21, 1997 , Process for recover halocarbons from liquid waste slurries , Li, Michael Hsin-Chwen, Neshanic Sation, NJ; Tikku, Hari K., Edison, NJ; Steinman, Marc, Livingston, NJ, 08285254, Schering Corporation, Kenilworth, NJ

CORE TERMS: sub, slurry, waste, immiscible, halocarbon, column, agitator, contaminant, raffinate, optionally ...

129. 5592962 , January 14, 1997 , Compressed gas release system , Hooberman, Gideon, Haifa, ILX, 08523480, G.O.T. Guide-On Technologies Ltd., Nesher, ILX

CORE TERMS: gas, chemical, compressed, diaphragm, external, threshold, biasing, reactants, firing pin, chemiluminescent ...

130. 5582725 , December 10, 1996 , Chlorine-resistant composite membranes with high organic rejection , McCray, Scott B., Bend, OR; Friesen, Dwayne T., Bend, OR; Barss, Robert P., Bend, OR; Nelson, Leslie D., The Dalles, OR, 08446070.

Bend Research, Inc., Bend, OR

CORE TERMS: membrane, organic, halide, acyl, ppm, polyamide, minutes, composit, feed, flux ...

131. 5578292, November 26, 1996, Long-lasting aqueous dispersions or suspensions of pressure-resistant gas-filled microvesicles and methods for the preparation thereof, Schneider, Michel, Troinex, CHX; Yan, Feng, Geneva, CHX; Grenier, deceased, Pascal, late of Ambilly, FRX; Puginier, Jerome, Le Chable-Beaumont, FRX; Barrau, Marie-Bernadette, Geneva, CHX, 08380588, Bracco International B.V., Amsterdam, NLX

CORE TERMS: gas, sub, suspension, microvesicle, gases, microbubble, microballoon, echogenic, bubble, carrier ...

132. 5573811, November 12, 1996, Air filter and method of construction, Townsley, David M., McKinney, TX, 08509527, S.T. Technologies, Inc., Plano, TX

CORE TERMS: foam, filter, layer, medium, ppi, dry, air filter, untreated, oil, polybutene ...

133. 5571762, November 5, 1996, Catalyst and process for the alkylation of aliphatic hydrocarbons with olefins, Clerici, Mario G., San Donato Milanese, ITX; Perego, Carlo, Carnate, ITX; de Angelis, Alberto, Legnano, ITX; Montanari, Luciano, Brescia, ITX, 08283509, Eniricerche S.p.A., Milan, ITX; AGIP Petroli S.p.A., Rome, ITX

CORE TERMS: sub, acid, catalyst, silica, triflic, fluoroalkylsulphonic, reactor, hydrocarbon, alkylation, isobutane ...

134. 5571314, November 5, 1996, Formulation and preparation of a gel system for the promotion of rapid solvation in aqueous systems, Supcoe, Robert F., Annapolis, MD; Felsen, Ira M., Greenbelt, MD, 05391419, The United States of America as represented by the Secretary of the Navy, Washington, DC

CORE TERMS: slurry, surfactant, polymer, carrier, amphoteric, injection, solvation, anionic, resin, drag ...

135. 5571233, November 5, 1996, Apparatus for freezing water in a pipe at a given location, Rolland, Mark, 835 Lenox Ave., Apt. 301 Miami Beach, FL 33139; Ferris, Joseph, 835 Lenox Ave., Apt. 301 Miami Beach, FL 33139, 08578355

CORE TERMS: pipe, sleeve, freezing, hose, nozzle, valve, gas, coupled, pad, tank ...

136. 5569842, October 29, 1996, Automated system for identifying and analyzing different types of used lubricants, Silvestri, Regan L., Orange Village, OH, 08412079, Man-Gill Chemical Company, Cleveland, OH

CORE TERMS: lubricant, spectrum, sample, computer, sup, ester, sub, phosphate, organic, automatically ...

137. 5558664, September 24, 1996, Device for the dermal absorption of medicinal solutes, Sarzaud, F. X., 4 Square Villaret de Joyeuse F-75017 Paris, FRX; Perego, Jean, 2, rue du Cheffin F-21250 Seurre, FRX; Cabrera, A., 15, boulevard de Levallois F-92200 Neuilly-sur-Seine, FRX, 08177736

CORE TERMS: skin, stopper, reservoir, film, adhesive, balloon, plastic,

migration, indentation, freon ...

138. 5558564 , September 24, 1996 , Faceting machine , Ascalon, Adir, 35 E. 35th St. Apt. 8H New York, NY 10016, 08368423

CORE TERMS: pin, lap, cutting, machin , housing, workpiece, faceting, polishing, gear, abrading ...

139. 5553391 , September 10, 1996 , Method and apparatus for heat treating webs , Bakalar, Sharon F., 510 Regenhard Ave. Moorestown, NJ 08057, 08462755

CORE TERMS: cylinder, burner, heat, exhaust, web, module, heated, duct, air-fuel, steam ...

140. 5550211 , August 27, 1996 , Method for removing residual additives from elastomeric articles , DeCrosta, Michelle A., Bethlehem, PA; Jagmandan, Indradat, West Orange, NJ, 08244849, Schering Corporation, Kenilworth, NJ

CORE TERMS: rubber, phthalate, supercritical, fluid, impurities, elastomeric, valve, minute, propellant, elastomerc ...

141. 5540254 , July 30, 1996 , Apparatus for use in servicing and installing refrigeration systems without freon leakage , McGowan, Willie J., 801 S. 141st St. Tacoma, WA 98444; McGowan, Kenneth L., 2723 147th St. East Tacoma, WA 98445, 08299257

CORE TERMS: freon, refrigeration, servicing, installing, valve, leakage, fitting, connector, tank, outboard ...

142. 5535049 , July 9, 1996 , Phase and birefringence aberration correction , Bowers, Mark, Modesto, CA; Hankla, Allen, Livermore, CA, 08240898, The Regents of the University of California, Oakland, CA

CORE TERMS: beam, phase, seed, wave, laser, path, conjugated, mixing, medium, aberration ...

143. 5505891 , April 9, 1996 , Method of and apparatus for dual fluid injection molding , Shah, Chandrakant S., 4433 Clarke Troy, MI 48098, 08285188

CORE TERMS: fluid, pin, valve, thermoplastic, cavity, mold, vapor, hollow, nozzle, injection ...

144. 5503591 , April 2, 1996 , Apparatus for decontaminating substances contaminated with radioactivity , Morikawa, Kenji, Kohshoku, JPX; Shimizu, Yasuo, Kohshoku, JPX; Doi, Akira, Toguramachi, JPX, 08225398, Morikawa Sangyo Kabushiki Kaisha, JPX

CORE TERMS: washing, grit, solvent, organic, radioactivity, contaminated, cutting, powder, decontaminating, rinsing ...

145. 5499586 , March 19, 1996 , Soil decontamination and remediation system , Davis, Kenneth W., Mountain View, WY, 08346783, Material Processing, Inc., Salt Lake City, UT

CORE TERMS: soil, drum, hydrocarbon, rotating, furnace, contaminated, conduit, gases, heat, condensing ...

146. 5497829 , March 12, 1996 , Expansion foam borehole plug and method .

Rajkovich, Richard A., Aurora, MN, 08153813, Foam Concepts, Inc., Duluth, MN

CORE TERMS: pouch, foam, borehole, plug, external, hole, decking, blast, stemming, seal ...

147. 5495490 , February 27, 1996 , Immersion method and apparatus for cooling a semiconductor laser device , Rice, Robert R., Chesterfield, MO; Russek, Joe B., Fenton, MO, 08395795, McDonnell Douglas Corporation, St. Louis, MO

CORE TERMS: laser, semiconductor, diode, coolant, array, heatsink, linear, heat, electrically, emitting ...

148. 5483755 , January 16, 1996 , Method and apparatus for drying grain material , Yang, Peng-Ta, No. 33, Lane 66, Tailien N. St. Taichung City, TWX, 08242624

CORE TERMS: grain, paddy, container, drying, freon, moisture, chamber, conduit, heating, dry ...

149. 5474652 , December 12, 1995 , Method of dry etching InAlAs and InGaAs lattice matched to InP , Henderson, Timothy S., Richardson, TX; Plumton, Donald L., Dallas, TX, 08333124, Texas Instruments Incorporated, Dallas, TX

CORE TERMS: etching, sub, sccm, inalas, inp, substrate, minute, etch, composition, reactive ...

150. 5470491 , November 28, 1995 , Process for producing a thin-film magnetic head having an insulation formed of a ladder-type silicone resin , Kodama, Satoshi, Hyogo, JPX; Adachi, Hiroshi, Hyogo, JPX, 08400478, Mitsubishi Denki Kabushiki Kaisha, Tokyo, JPX

CORE TERMS: magnetic, layer, film, coil, thin-film, insulation, silicone resin, magnetic core, photoresist, protective ...

151. 5462064 , October 31, 1995 , Integrated system for biological fluid constituent analysis , D'Angelo, Joseph P., Miami, FL; Schur, Henry B., Miami, FL; Han, Kedu, Miami, FL; Glenn, Daniel J., Hollywood, FL, 08213213, International Medical Associates, Inc., Miami, FL

CORE TERMS: layer, gel, collection, patch, analyte, body fluid, sample, chemical, glucose, fluid ...

152. 5456027 , October 10, 1995 , Athletic shoe with a detachable sole having an electronic breakaway system , Tecchio, Vincent G., 18 Winchester Dr. Howell, NJ 07731; Salt, Russell, Allentown, NJ, 08225144, Tecchio, Vincent G., Howell, NJ

CORE TERMS: electronic, fluid, sensor, shoe, detachable, athletic, wire, latching, piston, indicator ...

153. 5453584 , September 26, 1995 , Acoustic insulation screen and its applications, particularly for protecting the payload compartment of a space launcher , Borello, Gerard, L'Union, FRX, 08269965, Centre National d'Etudes Spatiales, Paris, FRX

CORE TERMS: bag, cushion, gas, acoustic, payload, compartment, frequencies, helium, noise, launcher ...

154. 5449520 , September 12, 1995 , Pharmaceutical composition for rectal administration of active principles exhibiting a prevalently topical medication

action at the colon level , Frigerio, Giuliano, Arese, ITX; Giorgetti, Enzo, Milan, ITX; Chiodini, Emilia, Marcallo con Casone, ITX, 08130624, Giuliani S.p.A., Milan, ITX

CORE TERMS: propellant, foam, active principle, composition, surfactant, freon, pressurized, thickener, colon, turboemulsifier ...

155. 5442931 , August 22, 1995 , Simplified adsorption heat pump using passive heat recuperation , Ryan, William, Chicago, IL; Worek, William M., Downers Grove, IL; Zheng, Weixiang, Darien, IL, 08284895, Gas Research Institute, Chicago, IL

CORE TERMS: fluid, ammonia, reactor, heat, vapor, cooling, heating, adsorbent, phase, heat pump ...

156. 5441596 , August 15, 1995 , Method for forming a stable plasma , Nulty, James E., San Jose, CA, 08281438, Cypress Semiconductor Corporation, San Jose, CA

CORE TERMS: plasma, tuning, etch, stable, high power, network, voltage, tune, low pressure, matching ...

157. 5439081 , August 8, 1995 , Compressed coolant hydraulic brake rotor , Glass, Thomas V., 200 Glynn Dr. Birmingham, AL 35215, 08299825

CORE TERMS: rotor, fluid, coolant, enclosed, medium, fins, volume, brake, circumference, valve ...

158. 5434045 , July 18, 1995 , Biological support system container , Jost, Leonora I., 21 Rosewood Cir., Unit 1 Kennebunk, ME 04043, 07883896

CORE TERMS: biological, organ, tissue, oxygen, container, preservation, preserved, storage, chamber, inert gas ...

159. 5431773 , July 11, 1995 , Method of manufacturing semiconductor device , Ikeda, Mitsubishi, Tokyo, JPX; Murooka, Michio, Tokyo, JPX, 07991954, Kabushiki Kaisha Toshiba, Kanagawa, JPX

CORE TERMS: layer, sub, etching, oxide, substrate, gas, anodic, alloy, selectivity, ratio ...

160. 5425521 , June 20, 1995 , Thermal spacer device , Locke, William J., Lakewood, CO, 08094550, Grimm Brothers Plastic Corporation, Wapello, IA

CORE TERMS: channel, spacer, lattice, interconnecting, container, pallet, sidewalls, interior, endless, enclosure ...

161. 5420875 , May 30, 1995 , Steering of laser beams , Sternklar, Shmuel, Rehovot, ILX, 08058634, The State of Israel, Atomic Energy Commission, Soreq Nuclear Research Center, Yavne, ILX

CORE TERMS: beam, pumping, steering, medium, lambda, sub, polarization, psi, wavelength, convergence ...

162. 5412535 , May 2, 1995 , Apparatus and method for cooling electronic devices , Chao, Shun-Lung, Plano, TX; McEwin, Jr., Louis W., Plano, TX, 08111106, Convex Computer Corporation, Richardson, TX

CORE TERMS: heat, pipe, electronic device, tube, fin, chip, pad, cylindrical, generating, thermal ...

163. 5411902 , May 2, 1995 , Process for improving gallium arsenide field effect transistor performance using an aluminum arsenide or an aluminum gallium arsenide buffer layer , Lee, Hyong Y., Fairborn, OH; Johnson, Belinda, Dayton, OH; Reston, Rocky, Beavercreek, OH; Ito, Chris, Colorado Springs, CO; Trombley, Gerald, Centerville, OH; Havasy, Charles, Beavercreek, OH, 08254722, The United States of America as represented by the Secretary of the Air Force, Washington, DC

CORE TERMS: layer, sub, barrier, gaas, arsenide, ltoreq, fabricated, gallium, buffer, ohmic ...

164. 5408546 , April 18, 1995 , Optical fiber pressure transducer and method of manufacturing the same , Slaker, Bradley F., Plymouth, MN; Little, Richard L., Wayzata, MN; Funk, Bruce L., Maplewood, MN, 08160410, MedAmicus, Inc., Minneapolis, MN

CORE TERMS: housing, fiber, membrane, optical, aperture, pressure transducer, distal, transducer, manufacturing, proximal ...

165. 5401861 , March 28, 1995 , Low temperature process for preparing alpha-anomer enriched 2-deoxy-2,2- difluoro-D-ribofuranosyl sulfonates , Chou, Ta-Sen, Indianapolis, IN, 07902301, Eli Lilly and Company, Indianapolis, IN

CORE TERMS: sub, mixture, alpha-anomer, chloride, compound, enriched, alpha, substituted, minute, halide ...

166. 5388417 , February 14, 1995 , Bag for the recovery of used freon from an operational system , Hughes, Jr., Andrew J., 4218 E. Joppa Rd. Baltimore, MD 21236; Hughes, Michele D., 4218 E. Joppa Rd. Baltimore, MD 21236, 08257176

CORE TERMS: bag, freon, operational, rod, container, aperture, refrigerant, coupled, sensor, prior art ...

167. 5385793 , January 31, 1995 , Thermal management of battery systems , Tiedemann, William H., Cedarburg, WI; Newman, John, Kensington, CA, 07916965, Globe-Union Inc., Milwaukee, WI

CORE TERMS: collector, battery, module, cell, heat, channel, cooling, coupled, conductor, bipolar ...

168. 5385751 , January 31, 1995 , Atmospheric pressure CVD process for preparing fluorine-doped tungsten oxide films , Riaz, Umar, Ann Arbor, MI; Proscia, James W., Dearborn, MI, 08086800, Ford Motor Company, Dearborn, MI

CORE TERMS: tungsten, glass, oxide, compound, film, fluorine-doped, substrate, reactant, alkoxide, ethoxide ...

169. 5380930 , January 10, 1995 , Process for the preparation of alkoxyalkanoic acids , Fried, Herbert E., Houston, TX, 08169088, Shell Oil Company, Houston, TX

CORE TERMS: sub, alkyl, carbon, nitroxide, atom, acid, alkoxyalkanol, chemical, mixture, free radical ...

170. 5374594 , December 20, 1994 , Gas-based backside protection during substrate processing , van de Ven, Everhardus P., Cupertino, CA; Broadbent,

Eliot K., San Jose, CA; Benzing, Jeffrey C., San Jose, CA; Chin, Barry L., Sunnyvale, CA; Burkhardt, Christopher W., San Jose, CA, 08007457, Novellus Systems, Inc., San Jose, CA

CORE TERMS: gas, platen, wafer, backside, groove, chamber, pin, station, pedestal, vacuum ...

171. 5367073 , November 22, 1994 , Asymmetric synthesis of .beta.-amino alcohols from chiral or achiral enamines , Singaram, Bakthan, Santa Cruz, CA; Fisher, Gary B., Boulder Creek, CA; Goralski, Christian T., Midland, MI; Nicholson, Lawrence W., Midland, MI, 08138613, The Regents of the University of California, Oakland, CA

CORE TERMS: sup, chemical, sub, chiral, alcohol, ether, beta, hydroboration, enamine, amino ...

172. 5365748 , November 22, 1994 , Screw compressor ice making packaged unit , Li, Guangjing, B8-9/F., Causeway Centre Wanchai, HKX, 08166604

CORE TERMS: refrigerant, ice, compressor, receiver, screw, valve, rink, low pressure, vessel, low temperature ...

173. 5360828 , November 1, 1994 , Biofoam II , Morrison, Robert L., Modesto, CA, 08215159, Regents of the University of California, Oakland, CA

CORE TERMS: biofoam, solvent, gel, pore, organic, foam, mixture, density, frozen, agar ...

174. 5355685 , October 18, 1994 , Purification of refrigerant , Stie, Kenneth E., Bartlesville, OK; Calame, Carl, Bartlesville, OK, 08031519, Phillips Petroleum Company, Bartlesville, OK

CORE TERMS: refrigeration, refrigerant, controller, purge, gases, noncondensable, accumulator, psig, programmable, sub ...

175. 5354523 , October 11, 1994 , Method for dual fluid injection molding , Shah, Chandrakant C., 4433 Clarke Troy, MI 48098, 07922683

CORE TERMS: fluid, thermoplastic, cavity, valve, mold, pin, vapor, nozzle, hollow, plastic ...

176. 5345534 , September 6, 1994 , Semiconductor wafer heater with infrared lamp module with light blocking means , Najm, Habib N., Dallas, TX; Huang, Steve S., Richardson, TX; Davis, Cecil J., Greenville, TX; Matthews, Robert T., Plano, TX, 08039720, Texas Instruments Incorporated, Dallas, TX

CORE TERMS: baffle, wafer, lamp, heating, bulb, coolant, heater, zone, passageway, ring ...

177. 5344418 , September 6, 1994 , Optical system for treatment of vascular lesions , Ghaffari, Shahriar, 13091 Pond Springs Rd., Bldg. C Austin, TX 78729-7139, 07807055

CORE TERMS: skin, blood, laser, vessel, cooling, gas, lamp, wavelength, radiation, lens ...

178. 5332563 , July 26, 1994 , Yellow phosphorus process to convert toxic chemicals to non-toxic products , Chang, Shih-Ger, El Cerrito, CA, 07819758, The

Regents of the University of California, Oakland, CA

CORE TERMS: sub, organic, compound, aqueous, concentration, ozone, phosphorus, acid, destruction, inorganic ...

179. 5332009 , July 26, 1994 , Pressurized canister recycling apparatus and methods , Van Etten, Larry W., 124 Cherry La. Tampa, FL 33610, 08095881

CORE TERMS: canister, seal, bore, tank, evacuation, escapement, track, propellant, piercing, rotator ...

180. 5325680 , July 5, 1994 , Self-cooling beverage container with evacuated refrigerant receiving chamber , Baroso-Lujan, Francisco J., Cuicuilco No. 77 Col. Vertiz Narvarte, CP 03650, MXX; Galvan-Duque, Ernesto M., Seneca 41 Col. Polanco, CP 11560, MXX, 08038479

CORE TERMS: compartment, beverage, container, refrigerant, partition, fluid, cooling, canned, punching, high pressure ...

181. 5318636 , June 7, 1994 , Method for cleaning surfaces, in particular sensitive surfaces , Szucs, Johann, Munchen, DEX, 07870144, Szucs, Eva Abony, Munich, DEX; Brau, Peter, Coburg, DEX

CORE TERMS: jet, refrigerant, nozzle, mixing, cleaning, region, ring, mixture, blast, cleaning agent ...

182. 5317884 , June 7, 1994 , Refrigerant pre-cooler , Lyon, Robert J., 3611 75th St. Sarasota, FL 34243, 07966425

CORE TERMS: freon, coil, cooling, reservoir, air conditioning, fan, fins, pipe, precooler, venturi ...

183. 5316749 , May 31, 1994 , Process for forming ammonium dinitramide salt by reaction between ammonia and a nitronium-containing compound , Schmitt, Robert J., Redwood City, CA; Bottaro, Jeffrey C., Mountain View, CA; Penwell, Paul E., Menlo Park, CA; Bomberger, David C., Belmont, CA, 737757, SRI International, Menlo Park, CA

CORE TERMS: salt, compound, ammonia, nitronium-containing, dinitramide, nitronium, mixture, ammonium, sub, bonded ...

184. 5316697 , May 31, 1994 , Conductive, particulate, fluorine-doped zinc oxide , Palmer, Bruce R., Edmond, OK; Kauffman, James W., Edmond, OK, 08036528, Kerr-McGee Corporation, Oklahoma City, OK

CORE TERMS: vapor, phase, zinc, oxidation, particulate, zinc oxide, reactant, fluorine, combustion, conductive ...

185. 5314562 , May 24, 1994 , Consumer polyolefin primer . McDonnell, Patrick F., Dublin, IEX; Wren, Gerard M., County Kildare, IEX; Welch, II, Edward K., Bristol, CT, 08013143, Loctite Corporation, Hartford, CT

CORE TERMS: primer, adhesiv , bond, substrate, blend, bonded, heptane, cyanoacrylate, dissolved, sub ...

186. 5308987 , May 3, 1994 , Microgap x-ray detector , Wuest, Craig R., Danville, CA; Bionta, Richard M., Livermore, CA; Ables, Elden, Livermore, CA, 08011637, The United States of America as represented by the United States

Department of Energy, Washington, DC

CORE TERMS: detector, x-ray, anode, photon, electron, cathode, avalanche, resistive, gap, microgap ...

187. 5299453 , April 5, 1994 , Method for determining oil and water saturation of core samples at overburden pressure , Sprunt, Eve S., Farmers Branch, TX; Djabbarah, Nizar F., Richardson, TX, 08010250, Mobil Oil Corporation, Fairfax, VA

CORE TERMS: sample, fluid, aqueous, hydrocarbon, solvent, oil, volume, rock, reservoir, formation ...

188. 5297619 , March 29, 1994 , Centrifugal heat pipe vapor absorption heat pump , Faghri, Amir, Dayton, OH, 07933775, Wright State University, Dayton, OH

CORE TERMS: heat, pipe, working fluid, pump, vapor-absorption, wick, vapor, fluid, heat pump, absorption ...

189. 5295207 , March 15, 1994 , Optical apparatus for measuring current in a grounded metal-clad installation , Dupraz, Jean-Pierre, Lyons, FRX; Thuries, Edmond, Meyzieu, FRX, 07977296, GEC Alsthom SA, Paris, FRX

CORE TERMS: optical, fiber, cladding, disk, conductor, installation, interface, transformer, groove, enclosure ...

190. 5289150 , February 22, 1994 , Method and apparatus for superconducting trapped-field energy storage and power stabilization , Rabinowitz, Mario, Redwood City, CA, 07752307, Electric Power Research Institute, Palo Alto, CA

CORE TERMS: superconductor, energy, coil, sub, superconducting, trapped, magnetic field, storage, stored, magnetic ...

191. 5286520 , February 15, 1994 , Preparation of fluorine-doped tungstic oxide , Proscia, James W., Dearborn, MI, 07806177, Ford Motor Company, Dearborn, MI

CORE TERMS: glass, oxide, sub, tungstic, compound, tungsten, hexafluoride, fluorine-doped, reactant, fluorine ...

192. 5276938 , January 11, 1994 , Freon recovery workstation , Cadwell, Jr., G. Mason, Kennett Square, PA; Holmes, Glenn S., Norristown, PA, 07999218, United States Environmental Services, Inc., Norristown, PA

CORE TERMS: freon, vapor, hand tool, screen, solvent, duct, workstation, workpiece, tray, cleaning ...

193. 5275083 , January 4, 1994 , Skirted projectiles for railguns , Hawke, Ronald S., Livermore, CA; Susoeff, Allan R., Pleasanton, CA, 07964473, The United States of America as represented by the United States Department of Energy, Washington, DC

CORE TERMS: skirt, arc, projectile, rail, insulating, plasma, railgun, extinguishing, trailing, spacer ...

194. 5272491 , December 21, 1993 , Thermal ink jet print device having phase change cooling , Asakawa, Stuart D., San Diego, CA; Mohr, John A., Lincoln, NE; Stoffel, John L., San Diego, CA; Kappele, William D., Loveland, CO; Mueller, Bruce E., Escondido, CA; Firl, Gerold G., Poway, CA, 07863521, Hewlett-Packard

Company, Palo Alto, CA

CORE TERMS: printhead, print, heat, ink, phase, thermal, resistor, nozzle, substrate, sink ...

195. 5271977 , December 21, 1993 , Low permeable rubber hose , Yoshikawa, Masato, Kodaira, JPX; Niwa, Hideyuki, Sayama, JPX; Fukuura, Yukio, Sayama, JPX; Sugiyama, Hideo, Higashimurayama, JPX; Naito, Kazuo, Kawasaki, JPX, 07476728, Bridgestone Corporation, Tokyo, JPX

CORE TERMS: rubber, hose, thin film, layer, inner tube, nylon, resin, adhesive, plating, dry ...

196. 5269149 , December 14, 1993 , Method for long range transcontinental and transoceanic transport of fresh chilled meat , Zeidler, Gideon, Davis, CA, 07868721, The Regents of the University of California, Oakland, CA

CORE TERMS: meat, chilled, container, frozen, beef, insulation, transportation, fresh, refrigerated, refrigeration ...

197. 5264108 , November 23, 1993 , Laser patterning of laminated structures for electroplating , Mayer, Steven T., San Leandro, CA; Evans, Leland B., Antioch, CA, 07941838, The United States of America as represented by the United States Department of Energy, Washington, DC

CORE TERMS: layer, laser, substrate, chip, interconnect, deposition, adhesion, etching, energy, inactive ...

198. 5263892 , November 23, 1993 , High efficiency heat exchanger system with glycol and refrigerant loops , Vandervaart, Gerry, Niagara Falls, CAX, 07725107, Kool-Fire Research & Development, Niagara Falls, CAX

CORE TERMS: coil, switch, compressor, outdoor, indoor, pump, terminal, heat, gas, fan ...

199. 5261593 , November 16, 1993 , Direct application of unpackaged integrated circuit to flexible printed circuit , Casson, Keith L., Northfield, MN; Habeck, Kelly D., Tampa, FL; Selbitschka, Eugene T., South St. Paul, MN, 07932064, Sheldahl, Inc., Northfield, MN

CORE TERMS: solder, substrate, chip, paste, reflow, pad, flip, bump, electrical, heating ...

200. 5256178 , October 26, 1993 , Method for producing an optical fiber of halide glass, particularly an infrared permeable fiber of heavy metal fluoride glass , Schneider, Hartmut, Munich, DEX; Staudt, Armin, Munich, DEX, 08015901, Siemens Aktiengesellschaft, Munich, DEX

CORE TERMS: sub, fiber, drying, glass, atmosphere, gas, container, acid, optical, halide ...

201. 5237834 , August 24, 1993 , Pre-chiller for ice maker , Grossel, Edward J., 4716 Garcia Ave. Sarasota, FL 34233, 07966691

CORE TERMS: waste water, fresh water, chamber, ice maker, ice, cycle, conduit, cylinder, cold, cooling ...

202. 5231772 , August 3, 1993 , Apparatus and process for recovering solvents ,

Hermanns, Klaus, Hunxe, DEX; Kusenbergh, Gerhard, Wesel, DEX; Hagenbruck, Norbert, Essen, DEX; Karthaus, Michael, Neuss, DEX, 07860288, Herco-Kuhltechnik Hermans & Co., both of, DEX; Air Products GmbH, Werk Hattingen, both of, DEX

CORE TERMS: solvent, gas, drier, nitrogen, heat exchanger, cryogenic, conduit, supplied, smaller, chamber ...

203. 5230741 , July 27, 1993 , Gas-based backside protection during substrate processing , van de Ven, Everhardus P., Cupertino, CA; Broadbent, Eliot K., San Jose, CA; Benzing, Jeffrey C., San Jose, CA; Chin, Barry L., Sunnyvale, CA; Burkhart, Christopher W., San Jose, CA, 07554225, Novellus Systems, Inc., San Jose, CA

CORE TERMS: gas, platen, wafer, backside, groove, pedestal, chamber, vacuum, pin, station ...

204. 5228619 , July 20, 1993 , Thermal expansion valve , Yano, Masamichi, Tokyo, JPX; Watanabe, Kazuhiko, Sagamihara, JPX; Ikoma, Tetsurou, Kawasaki, JPX; Okayama, Takashi, Kawasaki, JPX, 07967339, Fuji Koki Manufacturing Co., Ltd., Tokyo, JPX

CORE TERMS: diaphragm, refrigerant, thermal, heat, valve body, drive, expansion valve, peripheral, chamber, valve ...

205. 5226580 , July 13, 1993 , Automated heat pipe processing system , Hartle, Robert T., Cupertino, CA; McGann, Rodney, Soquel, CA; Thomas, Richard A., Sunnyvale, CA, 07858381, The United States of America as represented by the Secretary of the Air Force, Washington, DC

CORE TERMS: heat, pipe, casing, chamber, vacuum, welding, processing, cap, seal, charging ...

206. 5226242 , July 13, 1993 , Vapor jet dryer apparatus and method , Schwenkler, Robert S., Boise, ID, 07837221, Santa Clara Plastics, division of Preco, Inc., Boise, ID

CORE TERMS: vapor, processing, vessel, generation, wafer, zone, substrate, region, nitrogen, chamber ...

207. 5220929 , June 22, 1993 , Bio-compatible boot for implantable medical device , Marquit, Timothy A., San Jose, CA, 07770179, Ventritex, Inc., Sunnyvale, CA

CORE TERMS: boot, implantable, bio-compatible, silicone rubber, smooth, tissue, container, patient, corner, sharp ...

208. 5217911 , June 8, 1993 , Method of producing a semiconductor structure including a Schottky junction , Denda, Masahiko, Itami, JPX, 07676115, Mitsubishi Denki Kabushiki Kaisha, Tokyo, JPX

CORE TERMS: film, etching, insulating, substrate, silicon dioxide, aperture, silicon, semiconductor, producing, diode ...

209. 5211943 , May 18, 1993 , Pharmaceutical preparation for administration by percutaneous absorption and a method for their manufacture , Azuma, Masato, Osaka, JPX; Inoue, Toshihiro, Hyogo, JPX; Kawano, Yasuaki, Saitama, JPX, 07086319, Chugai Seiyaku Kabushiki Kaisha, Tokyo, JPX; Sekisui Kagaku Kogyo Kabushiki Kaisha, Osaka, JPX

CORE TERMS: acid, tape, salt, preparation, adhesive, pharmaceutical, layer, rubber, fatty, dispersed ...

210. 5210440 , May 11, 1993 , Semiconductor chip cooling apparatus , Long, Jon M., Livermore, CA, 07710740, VLSI Technology, Inc., San Jose, CA

CORE TERMS: cooling, die, chip, semiconductor, heat, cavity, dike, port, tape, input ...

211. 5199279 , April 6, 1993 , Drum contact freezer system and method , Reynolds, Martin M., 16809 N. 59th St. Scottsdale, AZ 55254, 07744483

CORE TERMS: drum, freezer, refrigerant, boiling, interior, frozen, heat, layer, sprayer, stagnant ...

212. 5199165 , April 6, 1993 , Heat pipe-electrical interconnect integration method for chip modules , Crawford, Robert K., Palo Alto; Leibovitz, Jacques, San Jose; Miller, Daniel J., San Francisco; Chen, Kim H., Fremont, CA, 07925541, Hewlett-Packard Company, Palo Alto, CA

CORE TERMS: heat, chip, pipe, substrate, channel, chamber, wick, working fluid, electrical, thermal ...

213. 5192194 , March 9, 1993 , Explosion proof compressor and a method for explosion proofing a compressor , Birdwell, Gaylon W., Houston, TX, 07690045, Air Engineers, Inc., Houston, TX

CORE TERMS: gas, compressor, housing, electrical, tight, terminal, refrigerant, responsive, gases, flammable ...

214. 5181796 , January 26, 1993 , Method for in situ contaminant extraction from soil , DeYoung, Scott H., 51 Caudatowa Dr. Ridgefield, CT 06877, 07728610

CORE TERMS: soil, volatile, contaminated, gas, chemical, energy, organic, vapor, sweep, injection ...

215. 5174975 , December 29, 1992 , Method of preparing metal carbides, nitrides, borides and the like . Laine, Richard M., Seattle, WA, 07435775, SRI International, Menlo Park, CA

CORE TERMS: sub, precursor, hexakis, carbide, pyrolysis, sup, nitride, amide, transition, organometallic ...

216. 5174906 , December 29, 1992 , Flushing of heating, ventilating and air conditioning systems using environmentally safe materials , Henry, Richard G., Mayfield Heights, OH, 07766124, Advanced Research Technologies, Park Ridge, IL

CORE TERMS: solvent, refrigerant, compressor, hydrochlorofluorocarbon, coils, cleaning, terpene, pump, air conditioning, ventilating ...

217. 5168393 , December 1, 1992 , Copper vapor laser modular packaging assembly , Alger, Terry W., Tracy, CA; Ault, Earl R., Dublin, CA; Moses, Edward I., Castro Valley, CA, 07298810, United States Department of Energy, Washington, DC

CORE TERMS: laser, container, copper, vapor, neon, packaging, power supply, electrical, computer, switch ...

218. 5167633 , December 1, 1992 , Liquid-vapor pressure reservoir for medication infusion pump , Mann, Alfred E., Los Angeles, CA; Lord, Peter C., Valencia, CA, 07619650, Pacesetter Infusion, Ltd., Sylmar, CA

CORE TERMS: pump, medication, reservoir, housing, chamber, fluid, infusion, patient, bag, flexible ...

219. 5161090 , November 3, 1992 , Heat pipe-electrical interconnect integration for chip modules , Crawford, Robert K., Palo Alto, CA; Leibovitz, Jacques, San Jose, CA; Miller, Daniel J., San Francisco, CA; Chen, Kim H., Fremont, CA, 07806997, Hewlett-Packard Company, Palo Alto, CA

CORE TERMS: heat, chip, pipe, substrate, channel, chamber, wick, working fluid, electrical, thermal ...

220. 5157820 , October 27, 1992 , Capacitor manufacturing process , Frederick, W. Richard, Mundelein, IL, 07626263, Integrated Power Components, Inc., Carol Stream, IL

CORE TERMS: laminate, capacitor, wound, strip, cavity, film, rack, schoopage, mold, electrode ...

221. 5156611 , October 20, 1992 , Blood microsampling site preparation method , Haynes, John L., Chapel Hill, NC; Titus, George R., Raleigh, NC, 07474877, Becton, Dickinson and Company, Franklin Lakes, NJ

CORE TERMS: blood, skin, film, protective, layer, lanced, tape, hydrophobic, situ, site ...

222. 5155290 , October 13, 1992 , Prevention of breakdown behind railgun projectiles , Hawke, Ronald S., Livermore, CA, 07783664, The United States of America as represented by the United States Department of Energy, Washington, DC

CORE TERMS: projectile, gas, breakdown, arc, inhibiting, railgun, rail, plasma, restrike, chamber ...

223. 5152878 , October 6, 1992 , Method for electrochemical cleaning of metal residue on molybdenum masks , Datta, Madhav, Yorktown Heights, NY; Rocheleau, Karl U., St. Albans, VT, 07806993, International Business Machines Corporation, Armonk, NY

CORE TERMS: mask, molybdenum, cleaning, residue, electrochemical, metallic, stain, sub, film, residual ...

224. 5149500 , September 22, 1992 , Compact system for recovery of sterilizing gas mixtures , Brahmhatt, Sudhir R., Macungie, PA; Timberlake, Jr., George A., Gilbertsville, PA, 07680517, MG Industries, Valley Forge, PA

CORE TERMS: sterilizing, gas, chamber, purging, condenser, mixture, valve, cycle, disposal, diluent ...

225. 5139674 , August 18, 1992 , Method of purifying dry-cleaning solvent , Abo, Masanobu, Chiba, JPX, 07571608, Novo Nordisk A/S, Bagsvaerd, DKX

CORE TERMS: lipase, solvent, immobilized, adsorbent, enzyme, sample, dry cleaning, lipid, contaminants, hydrolysis ...

226. 5138469 , August 11, 1992 , Preparation of photosensitive material to

withstand a lamination process , Wood, Robert B., Hillsboro, OR; Thomas, Mark A., Lake Oswego, OR; Valimont, James L., Cheswick, PA; Littell, Jr., H. Edward, Gibsonia, PA; Freeman, Glenn E., Tarentum, PA, 07371541, Flight Dynamics, Inc., Portland, OR

CORE TERMS: hologram, windshield, display, combiner, holographic, interlayer, optical, motorist, glass, ply ...

227. 5138193 , August 11, 1992 , Electric pulse generator of the saturable inductor type , Bruno, Charles, Issur-Tille, FRX; Roche, Michel, Dijon, FRX, 07571554, Commissariat a l'Energie Atomique, Paris, FRX

CORE TERMS: electrode, inductor, generator, terminal, coaxial, capacitor, electrically, saturable, shaping, electric ...

228. 5128382 , July 7, 1992 , Microcellular foams , Elliott, Jr., Jarrell R., Northfield Center, OH; Srinivasan, Gokul, Akron, OH; Dhanuka, Manish, Akron, OH; Akhaury, Ranjan, Akron, OH, 07794124, The University of Akron, Akron, OH

CORE TERMS: polymer, solvent, polymerization, foam, density, diluent, phase, particle, drying, reactor ...

229. 5124217 , June 23, 1992 , Magnetic image character recognition processes , Gruber, Robert J., Pittsford, NY; Koch, Ronald J., Webster, NY; Fuller, Timothy J., W. Henrietta, NY, 07544301, Xerox Corporation, Stamford, CT

CORE TERMS: toner, composition, particle, polymeric, developer, dye, alcohol, resin, comprised, carrier ...

230. 5123258 , June 23, 1992 , Air conditioning system , Brown, George S., 5132 Magnolia Ridge Rd. Fruitland Park, FL 34731; Queen, James J., 29411 Jessies La. Leesburg, FL 34748, 07734628

CORE TERMS: van, panel, air conditioning, door, rear, engine, evaporator, condenser, cooling, compressor ...

231. 5109182 , April 28, 1992 , Method of manufacturing incandescent lamps with halogen, particularly fluorine filling and incandescent lamp manufactured by the method , Laszlo, Zoltan, Budapest, HUX, 07505842, Tungsram Reszvenytarsasag, HUX

CORE TERMS: envelope, lamp, incandescent, filling, halogen, fluorine, inner space, incandescent lamp, sucking, manufacturing ...

232. 5096956 , March 17, 1992 , Low-viscosity polyol composition containing potassium titanate needle crystal , Kondo, Kanemitsu, Anjo, JPX; Imokawa, Toshiaki, Niihama, JPX; Murakami, Shinichi, Niihama, JPX; Nagayasu, Hideaki, Amagasaki, JPX, 07523411, Sumitomo Bayer Urethane Co., Ltd., Hyogo, JPX; Toyota Jidosha Kabushiki Kaisha, Aichi, JPX

CORE TERMS: polyol, composition, crystal, needle, amine, potassium, polyether, titanate, salt, aromatic ...

233. 5094083 , March 10, 1992 , Stirling cycle air conditioning system , Horn, Stuart B., 3805 Acosta Rd. Fairfax, VA 22031; Walters, Buford T., 3589 N. Forestdale Ave. Woodbridge, VA 22193, 07566765

CORE TERMS: cooling, cooler, cold, shaft, finger, heat exchanger, cycle, magnetic, coupled, seal ...

234. 5092911 , March 3, 1992 , Method and apparatus for separation of oil from refrigerants , Williams, J. Andy, Fremont, CA; Witham, Clyde, Montara, CA, 07585486, SRI International, Menlo Park, CA

CORE TERMS: refrigerant, oil, filter, contaminated, hydrocarbon, polymer, contaminants, accumulator, molecular, cartridge ...

235. 5090350 , February 25, 1992 , Method and apparatus for cleaning, coating and curing receptor substrates in an enclosed planetary array , Hammond, John M., Ontario, NY; Petropoulos, Mark, Ontario, NY; Berger, Stuart B., Rochester, NY; Nolley, Robert W., Rochester, NY, 07457926, Xerox Corporation, Stamford, CT

CORE TERMS: substrate, coating, solvent, chamber, station, horizontal axis, curing, carousel, film, planetary ...

236. 5085395 , February 4, 1992 , Equipment security apparatus and kit , Frater, Wayne K., San Diego, CA; Spitzer, Joseph C., San Diego, CA, 07492737, Mardesich Enterprises, Inc., San Diego, CA

CORE TERMS: cradle, adhesive, arm, cable, strip, kit, restraining, locking, bond, underside ...

237. 5077979 , January 7, 1992 , Two-stage Joule-Thomson cryostat with gas supply management system, and uses thereof , Skertic, Matthew M., Chatsworth, CA; Hlava, Joseph L., Woodland Hills, CA, 07497379, Hughes Aircraft Company, Los Angeles, CA

CORE TERMS: gas, cryostat, cooling, coil, second-stage, first-stage, helical, load, heat exchanger, thermal ...

238. 5074213 , December 24, 1991 , Thermoregulator of a block cylinder used for an offset press , Kurosawa, Seiichi, No. 2225 Suzukouya Katsuramura, Ibaragigun, Ibaragi Pref., JPX, 07443867

CORE TERMS: cylinder, printing, ink, cooling, offset, oil, tube, refrigerant, roller, cooler ...

239. 5071381 , December 10, 1991 , Process for the manufacture of straw tube drift chambers , Schieber, Leonard, Huntington, NY, 07490078, Advanced Interconnect Technology Inc., Islip, NY

CORE TERMS: tube, wire, straw, array, conductive, chamber, manufacturing, circular, particle, completed ...

240. 5070702 , December 10, 1991 , Continuously operating sup.3 HE evaporation refrigerator for space flight , Jackson, Henry W., 222 S. Holliston #305 Pasadena, CA 91106, 07519817

CORE TERMS: evaporator, sponge, refrigerator, sup, vapor, heat, condenser-collector, capillary, evaporation, impedance ...

241. 5062018 , October 29, 1991 , Swaged head arm mounting arrangement for disc drives using shape memory alloy , Yaeger, John R., Santa Clara County, CA, 07504949, Seagate Technology, Inc., Scotts Valley, CA

CORE TERMS: flexure, tube, phase, disc, coupling, arm, positioner, platform, memory, drive ...

242. 5056405 , October 15, 1991 , Propellant-to-inhibitor bonding system , Davidson, Thomas F., Manassas, VA; Sullivan, Evester, Washington, DC, 07621256, The United States of America as represented by the Secretary of the Navy, Washington, DC

CORE TERMS: propellant, inhibitor, insulation, grain, bonding, vacuum, minute, forward, closure, cure ...

243. 5053012 , October 1, 1991 , Disposable pressure cuff having flow-through pressure gauge , Edwards, Floyd V., Eggertsville, NY; Strobel, Norman M., Newfane, NY, 07415068, Harmac Medical Products, Inc., Buffalo, NY

CORE TERMS: infusion, bladder, chamber, fluid, pressure gauge, cuff, bag, gauge, outlet, valve ...

244. 5049555 , September 17, 1991 , Antagonists of specific excitatory amino acid receptors as neuroprotectants and anxiolytics , Rzeszutarski, Wacław J., Millersville, MD; Guzewska, Maria E., Pasadena, MD; Ellenberger, Suzanne R., Reisterstown, MD; Conti, Lisa H., Baltimore, MD; Ferkany, John W., Baltimore, MD; Kyle, Donald J., Baltimore, MD, 07286153, Nova Pharmaceutical Corporation, Baltimore, MD

CORE TERMS: acid, compound, animal, antagonist, minute, receptor, administered, anxiolytic, hypoxic, potent ...

245. 5044172 , September 3, 1991 , Air conditioning apparatus , Inoue, Yoshinori, Takarazuka, JPX; Endo, Masao, Sennan, JPX; Miura, Shinji, Suita, JPX, 07393922, Takenaka Corporation, Osaka, JPX

CORE TERMS: cold, cycle, cooling, accumulating, heat, compressor, air conditioning, decompressing, accumulator, condensor ...

246. 5043224 , August 27, 1991 , Chemically enhanced thermal oxidation and nitridation of silicon and products thereof , Jaccodine, Ralph J., Allentown, PA; Schmidt, deceased, Paul, late of Allentown, PA; Schmidt, executrix, Eva, Binghamton, NY, 07506589, Lehigh University, Bethlehem, PA

CORE TERMS: oxidation, sub, fluorine, ambient, oxide, nitridation, silicon, concentration, chlorine, nitride ...

247. 5037281 , August 6, 1991 , Tip seal for scroll compressor , Lane, William R., Dewitt, NY; Fraser, Jr., Howard H., Lafayette, NY, 07461759, Carrier Corporation, Syracuse, NY

CORE TERMS: scroll, seal, tip, spring, wrap, leakage, slot, compressed, compressor, orbiting ...

248. 5031831 , July 16, 1991 , Device for cooling potable liquids , Williams, III, Joseph I., 701 Pitt St. Mt. Pleasant, SC 29464, 07480766

CORE TERMS: cooling, capillary tube, straw, chamber, filled, cylinder, drink, tube, cold, cold drink ...

249. 5027616 , July 2, 1991 , Air-cooled absorption type cooling and heating apparatus , Tongu, Shinji, Hamamatsu, JPX, 07389404, Yazaki Corporation, Tokyo, JPX

CORE TERMS: refrigerant, heat, circulation, medium, valve, vapor, evaporator, pipe, pump, separator ...

250. 5025633 , June 25, 1991 , CFC recycling system , Furmanek, Daniel J., 5750 Newhouse Rd. E. Amherst, NY 14051, 07561342

CORE TERMS: valve, tank, container, tube, collection, appliance, refrigeration, refrigerant, recycling, removal ...

251. 5024137 , June 18, 1991 , Fuel assisted electromagnetic launcher , Schroeder, Jon M., 14301 Bagdad Rd. Leander, TX 78641, 07435616

CORE TERMS: ring, propellant, cylindrical, container, launch, thermopile, coil, switch, fuel, electromagnetic ...

252. 5023032 , June 11, 1991 , Electrostrictive ceramic material including a process for the preparation thereof and applications therefor , Bailey, Alex E., Cockeysville, MD; Winzer, Stephen R., Ellicott City, MD; Sutherland, Audrey E., Eldersburg, MD; Ritter, Andrew P., Baltimore, MD, 07579205, Martin Marietta Corporation, Bethesda, MD

CORE TERMS: composition, electrostrictive, dielectric constant, sub, wet, strain, pellet, khz, mixture, dependence ...

253. 5007982 , April 16, 1991 , Reactive ion etching of silicon with hydrogen bromide , Tsou, Len-Yan, New City, NY, 07217536, North American Philips Corporation, New York, NY

CORE TERMS: etching, polysilicon, plasma, silicon, oxide, layer, photoresist, etch, sub, selectivity ...

254. 5002898 , March 26, 1991 , Integrated-circuit device isolation , Fritzinger, Larry B., Bethlehem, PA; Lee, Kuo-Hua, Lower Macungie Township, Lehigh County, PA; Lu, Chih-Yuan, Lower Macungie Township, Lehigh County, PA; Sung, Janmye, Lower Macungie Township, Lehigh County, PA, 07423992, AT & T Bell Laboratories, Murray Hill, NJ

CORE TERMS: layer, oxide, silicon, etching, pad, nitride, substrate, deposition, polysilicon, protective ...

255. 4994705 , February 19, 1991 , Water-cooled, low pressure gas discharge lamp , Linder, Jacques F., Palos Verdes, CA; Boland, Steven H., Glendora, CA, 07329050, Hughes Aircraft Company, Los Angeles, CA

CORE TERMS: lamp, cooling, chamber, tube, vapor, mercury, radiation, gas, fluid, low pressure ...

256. 4992561 , February 12, 1991 , Simple conversion of artemisinic acid into artemisinin , Roth, Ronald J., Fairfax, VA; Roth, Nancy A., Fairfax, VA, 07521958, The United States of America as represented by the Secretary of the Army, Washington, DC

CORE TERMS: acid, artemisinin, ether, solvent, artemisinic, residue, dihydroartemisinic, petroleum, diethyl, chromatography ...

257. 4992134 , February 12, 1991 , Dopant-independent polysilicon plasma etch , Gupta, Subhash, San Jose, CA; Sahota, Kashmir, Union City, CA, 07436282, Advanced Micro Devices, Inc., Sunnyvale, CA

CORE TERMS: polysilicon, sub, etch, wafer, etching, n-type, mixture, p-type, batch, hydrogen ...

258. 4984426 , January 15, 1991 , Closed circuit system for recycling the exhaust gases of a combustion engine , Santi, Giunio G., Via 3a Armata 6 34123 Trieste, ITX, 07343954

CORE TERMS: tank, oxygen, sub, volume, combustion, fuel, engine, gaseous, valve, overpressor ...

259. 4974062 , November 27, 1990 , Housing for opto-electronic components , Maier, Horst, Heilbronn, DEX; Pahler, Gottfried, Heilbronn, DEX, 07356239, Licentia Patent-Verwaltungs-GmbH, Frankfurt, DEX

CORE TERMS: housing, gas, pipe, heat exchanger, cooler, joule-thomson, cooling, plastic, heat, opto-electronic ...

260. 4969684 , November 13, 1990 , Structure for an easy chair, sofa and the like , Zarotti, Claudio, Via Marco Polo 7 20124 Milano, ITX, 07395301

CORE TERMS: blister, pushbutton, user, easy chair, height, layer, fluid, heater, backrest, seat ...

261. 4966481 , October 30, 1990 , Cleaning fluid dispenser and applicator , Satten, Robert, 100 Wilmot Rd. Deerfield, IL 60015; Held, Helmut, 1811 W. Summerdale Chicago, IL 60640, 07224714

CORE TERMS: fluid, container, applicator, vent, plunger, dispenser, tube, valve chamber, valve, exit ...

262. 4965861 , October 23, 1990 , Two-dimensional proportional counter for position sensitive measurement of ionizing radiation , Filthuth, Heinz A. A. W., Bahnhofstrasse 29 D-7540 Neuenburg, DEX, 07258725

CORE TERMS: grid, counting, chamber, wire, pulse, plane, specimen, cathode, counter, holder ...

263. 4962514 , October 9, 1990 , Method of calibrating a tomographic system for testing earthen cores , Hart, Timothy J., Houston, TX; Davis, Jr., Lorne A., Houston, TX, 07273541, Texaco Inc., White Plains, NY

CORE TERMS: phantom, tomographic, earthen, calibrating, sample, hardening, beam, calibration, cylinder, correction ...

264. 4955207 , September 11, 1990 , Combination hot water heater-refrigeration assembly , Mink, Clark B., 648 Alameda Ct. No. St. Petersburg, FL 33702, 07412347

CORE TERMS: heat, tank, hot water, refrigeration, fluid, pipe, inlet, compressor, condenser, cold water ...

265. 4950227 , August 21, 1990 , Stent delivery system , Savin, Michael A., Norwood, MA; Windheuser, James E., Watertown, MA; Noddin, Richard A., Holliston, MA, 07267575, Boston Scientific Corporation, Watertown, MA

CORE TERMS: stent, catheter, sleeve, balloon, contracted, distal, margin, body cavity, silicone, delivery ...

266. 4944044 , July 31, 1990 , Padding element for protection against shocks, particularly for a crash helmet , Zarotti, Claudio, Milan, ITX, 07323592, VELA S.r.l., Milan, ITX

CORE TERMS: vesicle, helmet, padding, crown, fluid, user, crash helmet, shock, vapor, heat ...

267. 4941330 , July 17, 1990 , Multi-stage flash evaporator , Williamson, William R., 8310 Pilgrim Rd. Pensacola, FL 32504, 07134318

CORE TERMS: chamber, flash, vapor, tube, heat, inlet, condenser, bayonet, fluid, evaporator ...

268. 4940494 , July 10, 1990 , Process and equipment for cleaning large electromechanical parts , Petit, Nicaise, Rousset, FRX; Moisset, Jean-Claude, Faverges, FRX, 06708512, Snef Electro Mecanique, Vitrolles, FRX; Techni Contact, Faverges, FRX

CORE TERMS: solvent, rotor, cleaning, ultrasound, tank, insulation, machine, p>, dynamoelectric, soiling ...

269. 4938957 , July 3, 1990 , Deodorant composition and use thereof , Iwahashi, Takashi, Sagamihara, JPX, 07187244, Aikoh Co., Ltd., Tokyo, JPX

CORE TERMS: acid, monochloroacetic, mol, copolymer, ethyleneimine, admixture, oxide, deodorant, composition, polyethyleneimine ...

270. 4929386 , May 29, 1990 , Process for preparing a niobium activated yttrium tantalate X-ray phosphor , Reddy, Vaddi B., Sayre, PA, 07362721, GTE Products Corporation, Stamford, CT

CORE TERMS: sub, phosphor, mixture, phase, furnace, flux, x-ray, tantalate, milling, impurity ...

271. 4928020 , May 22, 1990 , Saturable inductor and transformer structures for magnetic pulse compression , Bix, Daniel L., Londonderry, NH; Reginato, Louis L., Orinda, CA, 07178041, The United States of America as represented by the United States Department of Energy, Washington, DC

CORE TERMS: secondary, conducting, rod, inductor, pulse, sub, saturable, winding, ring, conductor ...

272. 4926643 , May 22, 1990 , Closed loop system with regenerative heating and pump-driven recirculation of a working fluid , Johnston, Barry, 2423 Pickwick Rd. Baltimore, MD 21207, 07381909

CORE TERMS: working fluid, vapor, boiler, condenser, engine, energy, sub, condensate, heat, pump ...

273. 4922726 , May 8, 1990 , Heat pump system , New, David M., Homer, NY, 06936425, Carrier Corporation, Syracuse, NY

CORE TERMS: refrigerant, heat, heat pump, loop, evaporator, compressor, condenser, localized, indoor, heat exchanger ...

274. 4921691 , May 1, 1990 , Spray on wound dressing compositions , Stockel, Richard F., 475 Rolling Hills Rd. Bridgewater, NJ 08807, 06768422

CORE TERMS: ammonium chloride, polymer, chemical, composition, spray, propyloctadecyldimethyl, compound, wound dressing, ammonium, trimethoxysilyl ...

275. 4921163 , May 1, 1990 , Method and apparatus for temperature control of heating and cooling plants . Viessmann, Hans, Im Hain 24 3559 Battenberg/Eder, DEX, 07094139

CORE TERMS: heat, rated, cooling, heating, correction, zone, memory, boiler, stored, microcomputer ...

276. 4921041 , May 1, 1990 , Structure of a heat pipe , Akachi, Hisateru, Kanagawa, JPX, 07207318, Actronics Kabushiki Kaisha, Kanagawa, JPX

CORE TERMS: heat, pipe, container, loop-type, radiating, stream, vapor, conductive, cooling, pure ...

277. 4920792 , May 1, 1990 , Method for determining the amount of fluid in a core , DiFoggio, Rocco, Houston, TX, 07164153, Shell Oil Company, Houston, TX

CORE TERMS: solvent, fluid, sample, crude, oil, hydrocarbon, gravity, extract, extracted, soxhlet ...

278. 4918220 , April 17, 1990 , Separation of toluene diisocyanate from the residues of the production thereof , Collas, Gerard, Caluire, FRX; Gros, Georges, Bourg La Reine, FRX; Sagi, Ferenc, Lyons, FRX, 07296810, Rhone-Poulenc Chimie, Courbevoie, FRX

CORE TERMS: residue, extraction, column, coextractant, sub, mixture, supercritical, diluent, heavy, compound ...

279. 4910149 , March 20, 1990 , Method and apparatus for detecting radiation , Okube, Jiro, Osaka, JPX; Moriya, Tomoyoshi, Osaka, JPX; Yoshino, Katsumi, Osaka, JPX, 06759501, Sumitomo Electric Industries, Ltd., Osaka, JPX

CORE TERMS: radiation, polymer, sub, polythiophene, dose, doping, film, sup, peak, electron ...

280. 4906302 , March 6, 1990 , Solids decontamination method with ammonia , Bruya, James E., 4201 35th Ave., W. Seattle, WA 98199, 07332920

CORE TERMS: organic, aqueous, soil, ammonia solution, hazardous waste, ammonia, solvent, extracting, contaminated, concentration ...

281. 4904703 , February 27, 1990 , High temperature foam . Sufi, Aniq, Fountain Valley, CA, 07281203, SMS Associates, Carlsbad, CA

CORE TERMS: isocyanate, foam, resin, additive, insulating, polyester, polyol, ingredient, polymeric, ranging ...

282. 4898183 , February 6, 1990 , Apparatus and method for insertion of cochlear electrode assembly . Kuzma, Janusz, Cherrybrook, AUX, 07368979, Cochlear Pty. Limited, Lane Cove, AUX

CORE TERMS: electrode, collar, insertion, gripping, cochlea, surgeon, prior art, cochlear, claws, placement ...

283. 4895709 , January 23, 1990 , Method of preparing metal carbides, nitrides, and the like , Laine, Richard M., Palo Alto, CA, 07279599, SRI International,

Menlo Park, CA

CORE TERMS: sub, precursor, hexakis, carbide, pyrolysis, sup, nitride, amide, transition, organometallic ...

284. 4895085 , January 23, 1990 , Method and structure for in-situ removal of contamination from soils and water , Chips, Mark D., 980 Kiely Blvd., Apt. #303 Santa Clara, CA 95051, 07142726

CORE TERMS: soil, vapor, combustion, contaminated, manifold, contamination, contaminant, probe, engine, fluid ...

285. 4894170 , January 16, 1990 , Liquid recovery system and method , Billmyre, Richard D., 4822 Fauna La. Indianapolis, IN 46234, 07315809

CORE TERMS: tank, acid, separator, spent, recovered, pickling, crystal, circulation, drying, dissolved ...

286. 4893756 , January 16, 1990 , Hydride reactor apparatus for hydrogen comminution of metal hydride hydrogen storage material , Fetcenko, Michael A., Royal Oak, MI; Kaatz, Thomas, Drayton Plains, MI; Sumner, Steven P., Warren, MI; LaRocca, Joseph, Warren, MI, 07247569, Energy Conversion Devices, Inc., Troy, MI

CORE TERMS: hydrogen, storage, alloy, vessel, hydride, cooling, ingot, port, reactor, interior ...

287. 4893415 , January 16, 1990 , Method for the drying of wood and wood-based products , Moldrup, Steen Ole, Magstraede 4 1204 Copenhagen K, DKX, 07110694

CORE TERMS: drying, wood, chamber, heat, vapour, condensation, vacuum, tank, heating, cooler ...

288. 4888955 , December 26, 1989 , Two phase CO.sub.2 storage tank , Tyree, Jr., Lewis, Lexington, VA; Gyger, Roger F., Naperville, IL; Rhoades, George D., La Grange, IL, 07235298, Liquid Carbonic Corporation, Chicago, IL

CORE TERMS: sub, tank, subcooled, trough, equilibrium, region, heat exchanger, valve, thermocline, psig ...

289. 4873729 , October 17, 1989 , Automatic device for the disinfection of W.C. bowls and seats , Micallef, Jacques, 14 rue Murillo F-75008 Paris, FRX, 06756435

CORE TERMS: lid, seat, duct, tank, folding, disinfectant, pan, folded, hole, box ...

290. 4870805 , October 3, 1989 , Method of packaging a fluid under pressure, and packaging container for use with the method , Morane, Bruno, Neuilly, FRX, 07203696, L'Oreal, Paris, FRX

CORE TERMS: container, pouch, propellant, cartridge, fluid, inside, tube, dispensed, valve, packaging ...

291. 4869069 , September 26, 1989 , Integrated cascade refrigeration system , Scherer, John S., Santa Monica, CA, 07288459, Scherer, Frank J., Riverside, CA

CORE TERMS: refrigerant, compression, refrigeration, ammonia, absorption, routed, reboiler, heat, compressor, condenser ...

292. 4868294 , September 19, 1989 , Process for preparing cephalosporin intermediates , Brundidge, Steven P., Wolcott, NY; Brodfuehrer, Paul R., Syracuse, NY; Sapino, Jr., Chet, East Syracuse, NY; Shih, Kun M., East Syracuse, NY; Walker, Donald G., Liverpool, NY, 07044529, Bristol-Myers Company, New York, NY

CORE TERMS: minute, sub, sup, compound, slurry, mmoles, stirred, dried, trimethylsilyl, dry ...

293. 4865741 , September 12, 1989 , Separation of oil into fractions of asphaltenes, resins, aromatics, and saturated hydrocarbons , Nolte, David G., Houston, TX; Collings, Jr., Edwin L., Sugar Land, TX, 07289092, Texaco Inc., White Plains, NY

CORE TERMS: column, hydrocarbon, asphaltene, aromatic, resin, saturated, cyano, silica, fraction, oil ...

294. 4860578 , August 29, 1989 , Method and apparatus for determining the center of gravity of a spherical ball , Movick, Nyle O., 4600 Macky Way Boulder, CO 80303, 07094495

CORE TERMS: ball, spherical, cup, tested, golf ball, vibration, float, unbalanced, center of gravity, geometric ...

295. 4859303 , August 22, 1989 , Method and apparatus for removing coating from substrate , Kalnitsky, Alexander, Ottawa, CAX; Ellul, Joseph P., Nepean, CAX; Tay, Sing P., Nepean, CAX; Poirier, Jacques G., Kanata, CAX, 07106213, Northern Telecom Limited, Montreal, CAX

CORE TERMS: gas, substrate, activated, positively, species, photoresist, coating, layer, inlet, aperture ...

296. 4853980 , August 8, 1989 , Protective buffer padding element , Zarotti, Claudio, Milan, ITX, 06902409, Sonda S.r.l., Milan, ITX

CORE TERMS: blister, padding, helmet, fluid, shock, deformable, shell, user, vapor, interconnected ...

297. 4849021 , July 18, 1989 , Process for producing coal fillers , Nakai, Masayuki, Sodegaura, JPX; Uesugi, Kenji, Sodegaura, JPX; Tomura, Katsumi, Sodegaura, JPX, 07196219, Idemitsu Kosan Co., Ltd., Tokyo, JPX

CORE TERMS: coal, particle, slurry, oil, filler, rubber, ash, ultrafinely, agglomerate, gravity ...

298. 4845337 , July 4, 1989 , Ovenized oscillator assembly , Goldberg, Seymour, Saugus, MA; Lynch, Thomas J., Peabody, MA, 07151463, EG & G, Inc., Wellesley, MA

CORE TERMS: oscillator, gas, chamber, insulating, housing, frequency, constant, heat loss, electronic, vacuum ...

299. 4843116 , June 27, 1989 , UV light stabilizer composition comprising cyclic aliphatic epoxy, UV screener, and polyalkyldipiperidine (HALS) compounds , Bopp, Richard C., West Coxsackie, NY, 06840391, General Electric Company, Selkirk, NY

CORE TERMS: ether, compound, sup, polyphenylene, resin, composition, stabilizer, polymer, alkyl, atom ...

300. 4842045 , June 27, 1989 , Expandable radiator , Reinmuller, Donald L., Enon, OH, 07255803, The United States of America as represented by the Secretary of the Air Force, Washington, DC

CORE TERMS: sleeve, heat, heat exchange, medium, radiator, inlet, reel, expandable, prior art, collapsible ...

301. 4841998 , June 27, 1989 , Soil decontamination method , Bruya, James E., 4201 35th Ave. W. Seattle, WA 98199, 07113628

CORE TERMS: organic, soil, aqueous, ammonia solution, hazardous waste, ammonia, solvent, extracting, concentration, contaminated ...

302. 4840498 , June 20, 1989 , Self-aligning journal bearing , Lichtfuss, Gerhardt E., Rockford, IL, 07212574, Sundstrand Corp., Rockford, IL

CORE TERMS: ball, lubrication, pin, self-aligning, bushing, fluid, hole, rotating, film, spherical ...

303. 4836902 , June 6, 1989 , Method and apparatus for removing coating from substrate , Kalnitsky, Alexander, Ottawa, CAX; Ellul, Joseph P., Nepean, CAX; Tay, Sing P., Nepean, CAX, 07106214, Northern Telecom Limited, Montreal, CAX

CORE TERMS: substrate, chamber, activation, gas, ultraviolet radiation, coating, baffle, layer, activated, absorbing ...

304. 4826774 , May 2, 1989 , Vapoheromic double-complex salts , Nagel, Colleen C., Arden Hills, MN, 07008864, Minnesota Mining and Manufacturing Company, St. Paul, MN

CORE TERMS: sub, salt, vapor, monitor, isonitrile, p-c, double-complex, compound, heteroatoms, atom ...

305. 4826666 , May 2, 1989 , Method of preparing metal carbides and the like and precursors used in such method , Laine, Richard M., Palo Alto, CA, 07177860, SRI International, Menlo Park, CA

CORE TERMS: sub, precursor, carbide, alloy, sup, pyrolyzed, pyrolysis, tungsten, solvent, organometallic ...

306. 4821530 , April 18, 1989 , Air-conditioning refrigerator , Ledbetter, Ricky G., 503 Maple St. Medford, OR 97501, 07193933

CORE TERMS: refrigerator, freezer, door, air-conditioning, compartment, freon, air conditioner, cooling, coil, condensor ...

307. 4821517 , April 18, 1989 , Actuator for producing a displacement movement on a set temperature being reached , Zarotti, Claudio, Via Marco Polo, 7 20124 Milano, ITX, 07046639

CORE TERMS: actuator, bladder, displacement, fluid, boiling, cut-in, layer, sub, passive, impervious ...

308. 4819445 , April 11, 1989 , Integrated cascade refrigeration system , Scherer, John S., 1021 Hill St., Suite No. 5 Santa Monica, CA 90405, 07036711

CORE TERMS: refrigerant, compression, refrigeration, ammonia, absorption,

routed, reboiler, compressor, heat, pump ...

309. 4813476 , March 21, 1989 , Expandable pulse power spacecraft radiator , Mahefkey, Edward T., Beavercreek, OH, 07110809, The United States of America as represented by the Secretary of the Air Force, Washington, DC

CORE TERMS: heat, heat exchange, medium, sleeve, peak, bellows, condensation, radiator, expandable, radiating ...

310. 4812413 , March 14, 1989 , Reagent, process and kit for drug detection , Glattstein, Baruch, Jerusalem, ILX; Aserin, Abraham, Jerusalem, ILX, 07026614, Erez Forensic Technology, Ltd., ILX

CORE TERMS: reagent, cocaine, cobalt, aerosol, thiocyanate, spray, salt, identification, kit, color ...

311. 4810775 , March 7, 1989 , Process for purifying resorbable polyesters , Bendix, Dieter, Ingelheim am Rhein, DEX; Reichert, Dieter, Ingelheim am Rhein, DEX; Scharfe, Michael, Wiesbaden, DEX, 07170188, Boehringer Ingelheim KG, Ingelheim am Rhein, DEX

CORE TERMS: precipitation, polymer, polyester, solvent, crystalline, acid, resorbable, nozzle, poly, viscosity ...

312. 4810455 , March 7, 1989 , Balloon catheter , Pope, Jr., J. Lee, Attleboro, MA; Resden, Ronald E., Norton, MA, 07104831, Mansfield Scientific, Inc., Mansfield, MA

CORE TERMS: balloon, catheter, coil, distal, fluid, inflation, interstitial, sleeve, wire, vent ...

313. 4805419 , February 21, 1989 , Absorption type heat exchanging apparatus , Furukawa, Tetsuro, Suita, JPX; Yoshikawa, Kensuke, Katano, JPX; Mizuuchi, Mitsuru, Nishinomiya, JPX; Furutera, Masaharu, Gose, JPX; Sakabata, Nobuharu, Osaka, JPX; Matsushita, Yoshiaki, Maizuru, JPX; Muto, Tomoyoshi, Kumamoto, JPX; Umeda, Tatsuhiko, Nara, JPX, 07162499, Hitachi Zosen Corporation, JPX

CORE TERMS: absorption, pump, regeneration, pipe, refrigerant, diluted, evaporation, heat, freon, concentrated ...

314. 4805410 , February 21, 1989 , Closed loop recirculation system for a working fluid with regeneration , Johnston, Barry, 1622 Q St., N.W. Washington, DC 20009, 07150435

CORE TERMS: condensate, working fluid, vapor, regeneration, valve, heat, boiler, energy, tank, condenser ...

315. 4803842 , February 14, 1989 , Direct contact cooling of foodstuffs with halocarbon heat transfer liquids , Coelho, Philip H., Folsom, CA; Comerchero, Victor, Folsom, CA, 07012197, Castleton, Inc., Rancho Cordova, CA

CORE TERMS: sub, shrimp, ppm, freezing, direct contact, heat, foodstuff, migration, bath, mixture ...

316. 4800693 , January 31, 1989 , Heat insulating window unit and insulating blocking component therefor , Karlsson, Jan, Gothenburg, SEX; Fasth, Ingemar, Hisings Backa, SEX, 07180678, Barrier HB, SEX

CORE TERMS: gas, absorption, gases, sub. band, radiation, mixture, heat, region, wave ...

317. 4798753 , January 17, 1989 , Insulating panels containing insulating powders and insulating gases , Abuaf, Nesim, Schenectady, NY; Barito, Robert W., Louisville, KY; Downs, Kenneth L., Louisville, KY, 07157156, General Electric Company, Louisville, KY

CORE TERMS: insulating, panel, gas, particulate, silica, freon, envelope, insulation, precipitated, fly ash ...

318. 4797239 , January 10, 1989 , Foam pig with textured surface , Cho, Hyun J., Tulsa, OK, 07036877, T. D. Williamson, Inc., Tulsa, OK

CORE TERMS: pig, mold, foam, pipeline, indentation, urethane, interior, diphenylmethane, diisocyanate, tough ...

319. 4794752 , January 3, 1989 , Vapor stirling heat machine , Redderson, Roy H., 100 Winchester Way Statesboro, GA 30458, 07049698

CORE TERMS: working fluid, chamber, volume, cycle, cold, hot, piston, heat, engine, regenerator ...

320. 4793897 . December 27, 1988 , Selective thin film etch process , Dunfield, John S., San Jose, CA; Taylor, Bradley J., Saratoga, CA, 07028242, Applied Materials, Inc., Santa Clara, CA

CORE TERMS: sub, oxide, etch, nitride, silicon, selectivity, photoresist, etching, sif, underlayer ...

321. 4793366 , December 27, 1988 , Nicotine dispensing device and methods of making the same , Hill, Ira D., Clay Court Locust, NJ 07760, 06796883

CORE TERMS: nicotine, polymer, cigarette, microporous, smoking, user, dispensing, mixture, housing, film ...

322. 4791719 , December 20, 1988 , Method of manufacturing a thin-film magnetic head , Kobayashi, Tetsuo, Kanagawa, JPX; Tsukada, Yukihiisa, Odawara, JPX; Narishige, Shinji, Mito, JPX; Hara, Shinichi, Hitachi, JPX, 07001440, Hitachi, Ltd., Tokyo, JPX

CORE TERMS: layer, magnetic, gap, oxide, mask, etching, ion, milling, thin-film, insulation ...

323. 4788824 , December 6, 1988 , Electrical power plant and method of producing electricity , Spurr, Charles A., 3000 Eighth St. Bay City, TX 77414; Spurr, James R., 8919 Concho St. Houston, TX 77036, 06902783

CORE TERMS: hydrogen, air stream, gas, valve, stream, plants, chamber, hot, electricity, control valve ...

324. 4787983 . November 29, 1988 , Method for determining the amount of oil in a sponge core , DiFoggio, Rocco, Houston, TX; Ellington, William E., Houston, TX; Dangayach, Kailash C. B., Houston, TX, 07122622, Shell Oil Company, Houston, TX

CORE TERMS: sponge, oil, solvent, formation, coring, fluid, sample, freon, polyurethane, mechanical ...

325. 4785661 , November 22, 1988 , Method for analyzing solvent extracted sponge core , Ellington, William E., Houston, TX; Calkin, Clayton L., Houston, TX, 07035111, Shell Oil Company, Houston, TX

CORE TERMS: solvent, sponge, oil, mixture, volume, formation, fluid, coring, extract d, disperser ...

326. 4781871 , November 1, 1988 , High-concentration liposome processing method , West, III, Glenn, San Carlos, CA; Martin, Francis J., San Francisco, CA, 06909122, Liposome Technology, Inc., Dover, DE

CORE TERMS: liposome, lipid, solvent, concentration, chamber, suspension, aqueous, encapsulation, micron, medium ...

327. 4777561 , October 11, 1988 , Electronic module with self-activated heat pipe , Murphy, John E., Los Angeles, CA; Gardner, William T., Los Angeles, CA, 06716063, Hughes Aircraft Company, Los Angeles, CA

CORE TERMS: heat, module, pipe, rack, interface, thermal, electronic, card, bellows, cold ...

328. 4772357 , September 20, 1988 , System for automatically etching pieces , Carlson, Gary A., Minnetonka, MN; Mesick, Robert E., San Diego, CA, 07059113, Robbins & Craig Welding & Mfg. Co., South El Monte, CA

CORE TERMS: station, etching, osmosis, washing, etchant, chemical, rinsing, housing, right side, pneumatic ...

329. 4768561 , September 6, 1988 , Process for sealing pipes , Hyodo, Sadahisa, Hachioji, JPX; Komatsu, Jun, Hachioji, JPX, 07022518, Three Bond Co., Ltd., Tokyo, JPX

CORE TERMS: sealant, pipe, cock, aqueous, propellant, resin, emulsion, foam, sealing, region ...

330. 4764086 , August 16, 1988 , Blower for circulating larger gas volumes, in particular for high-power laser systems , Jesinger, Richard, Esslingen, DEX, 06946588, Fortuna-Werke Maschinenfabrik GmbH, Stuttgart, DEX

CORE TERMS: chamber, gas, radial, pump, drive, seal, shaft, oil, lock, blower ...

331. 4760099 , July 26, 1988 , Stabilizer-containing polyol compositions for polyurethane and polyisocyanurate foams , Canaday, John S., Tampa, FL; Skowronski, Michael J., Clearwater, FL; Londrigan, Michael E., Clearwater, FL, 06945435, Sloss Industries Corporation, Birmingham, AL

CORE TERMS: polyol, foam, acid, polyester, mixture, glycol, blend, stabilizer, polyurethane, amine ...

332. 4758024 , July 19, 1988 , Composite flanged coupling structure , Kaempfen, Charles E., 3202 Larkstone Dr. Orange, CA 92669, 07033575

CORE TERMS: sub, ply, coupling, spring, composite, twine, flange, strand, load, filament ...

333. 4756310 , July 12, 1988 , System for cooling an area of the surface of an object , Bitterly, Jack G., Woodland Hills, CA, 06673509, Hemodynamics

Technology, Inc., Newbury Park, CA

CORE TERMS: heat exchanger, valve, skin, cooling, sub, vessel, heat, orifice, ring, solenoid ...

334. 4755352 , July 5, 1988 , System of generating electricity using a swimming pool type nuclear reactor , Glen, John S., Deep River, CAX; Hinds, Henry W., Buchanan, CAX, 06734144, Atomic Energy of Canada Limited, Ottawa, CAX

CORE TERMS: reactor, heat, pool, electricity, pump, fluid, swimming pool, turbine, engine, nuclear reactor ...

335. 4754439 , June 28, 1988 , Means for obtaining shear wave velocities , Hanson, Kenneth E., Broken Arrow, OK; Thomsen, Leon A., Tulsa, OK; Sondergeld, Carl H., Broken Arrow, OK; Rai, Chandra S., Tulsa, OK, 06797715, Amoco Corporation, Chicago, IL

CORE TERMS: velocity, fluid, wellbore, shear, acoustic, formation, wave, logging, density, logged ...

336. 4752425 , June 21, 1988 , High-encapsulation liposome processing method , Martin, Francis J., San Francisco, CA; West, III, Glenn, San Carlos, CA, 06908765, Liposome Technology, Inc., Menlo Park, CA

CORE TERMS: liposome, lipid, solvent, concentration, chamber, suspension, aqueous, encapsulation, micron, medium ...

337. 4749110 , June 7, 1988 , Spray can , Maeno, Kunio, Aichi, JPX; Murachi, Tatsuya, Aichi, JPX, 07009599, Toyoda Gosei Co., Ltd., Nishikasugai, JPX

CORE TERMS: spray, treating, solvent, aforementioned, filled, composition, door, silane, gas, repellent ...

338. 4744786 , May 17, 1988 , Infusion pump , Hooven, Michael D., Miami, FL, 06875106, Cordis Corporation, Miami, FL

CORE TERMS: syringe, pump, infusion, housing, piston, fluid, barrel, gas, viscous, needle ...

339. 4742873 , May 10, 1988 , Subterranean flood tracer process , Craig, III, Forrest F., Spring, TX, 07024768, Mitchell Energy Corporation, The Woodlands, TX

CORE TERMS: tracer, formation, injection, fluid, carbon dioxide, injected, subterranean, compound, motive, flooding ...

340. 4742026 , May 3, 1988 , Method for the selective dry etching of layers of III-V group semiconductive materials , Vatus, Jean, Verrieres le Bouisson, FRX; Chevrier, Jean, Gif sur Yvette, FRX, 07042819, Thomson-CSF, Paris, FRX

CORE TERMS: layer, etching, sub, ion, transistor, gaas, plasma, metallization, gate, reactive ...

341. 4738732 , April 19, 1988 , Self cleaning liquid solder flux , Anderson, Edward A., Yorba Linda, CA; Sandi, Ernesto S., Montebello, CA; Cammarata, James C., Chatsworth, CA, 07010872, Hughes Aircraft Co., Los Angeles, CA

CORE TERMS: flux, acid, hydrofluoric acid, solder, organic, solvent, soldering, ethyl alcohol, evaporative, rating ...

342. 4735081 , April 5, 1988 , Method and apparatus for detecting presence and concentration of vapors in gaseous fluids , Luoma, Gregory A., Victoria, CAX; Yee, Lannie K., Saanichton, CAX; Turnham, Barrie D., Victoria, CAX, 06827057, Her Majesty the Queen in right of Canada as represented by the Minister of National Defence, Ottawa, CAX

CORE TERMS: crystal, concentration, fluid, vapour, frequency, channel, sample, monitoring, oscillator, detector ...

343. 4734145 , March 29, 1988 , Method for making a magnetic transducer head cleaning card , Monia, Victor, Santa Clara, CA, 06909613, Visa Technologies, Inc., Mountain View, CA

CORE TERMS: card, layer, solvent, fabric, region, color, transducer, cleaning, machine, heat ...

344. 4733467 , March 29, 1988 , Method and apparatus for cooling a razor , Borenstein, Charles, 445 N.E. 195th St. North Miami Beach, FL 33179, 06874590

CORE TERMS: razor, receptacle, cooling, coolant, blade, container, cap, shave, nozzle, user ...

345. 4731958 , March 22, 1988 , Substrate for thin film electroluminescent display panel , Kishishita, Hiroshi, Nara, JPX; Mizukami, Etsuo, Nara, JPX; Endo, Yoshihiro, Nara, JPX; Horita, Takaaki, Tenri, JPX; Uede, Hisashi, Wakayama, JPX, 06819004, Sharp Kabushiki Kaisha, Osaka, JPX

CORE TERMS: substrate, glass, display, layer, hydrolytic, electrode, film, dielectric, transparent, panel ...

346. 4730665 , March 15, 1988 , Apparatus for cooling high-density integrated circuit packages , Cutchaw, John M., Scottsdale, AZ, 06909182, Technology Enterprises Company, Scottsdale, AZ

CORE TERMS: coolant, package, chamber, housing, spheroid, integrated, heat, conductive, cooling, sidewall ...

347. 4730460 , March 15, 1988 . Ultra - rapid plasma freezing with halocarbon heat transfer liquids , Coelho, Philip H., Folsom, CA; Comerchero, Victor, Folsom, CA, 07012196, Castleton, Inc., Rancho Cordova, CA

CORE TERMS: plasma, sub, bag, freezing, bottle, heat, migration, mixture, ppm, direct contact ...

348. 4729319 , March 8, 1988 , Controlled explosion projectile ejection system , Orlando, Edward, 823 Georgia St. Key West, FL 33040, 07010328

CORE TERMS: valve, gas, projectile, chamber, input, controller, bore, combustible, spark, trigger ...

349. 4727932 , March 1, 1988 . Expandable pulse power spacecraft radiator , Mahefkey, Edward T., Beavercreek, OH, 06875808, The United States of America as represented by the Secretary of the Air Force, Washington, DC

CORE TERMS: heat, heat exchange, medium, sleeve, peak, bellows, condensation, radiator, expandable, volume ...

350. 4727720 , March 1, 1988 , Combination ice mold and ice extractor ,
Wernicki, Paul F., 4501 NE. 21 Ave., #308 Fort Lauderdale, FL 33308, 06854145

CORE TERMS: ice, extractor, evaporator, mold, heat, module, condenser, machine,
sink, freezing ...

351. 4724171 , February 9, 1988 , Process for protecting polished silicon
surfaces , Lampert, Ingolf, Burghausen, DEX, 06923133, Wacker-Chemitronic
Gesellschaft fur Elektronik-Grundstoffe mbH, Burghausen, DEX

CORE TERMS: wafer, silicon, layer, reagent, hexamethyldisilazane, polished,
oxidation, oxidative, cleaning, chamber ...

352. 4722765 , February 2, 1988 , Process for preparing printed circuits ,
Ambros, Peter, Leutershausen, DEX; Budig, Walter, Wulfershausen, DEX;
Westermair, Gisela, Hohenroth, DEX, 06946115, Preh Elektrofeinmechanische Werke
Jakob Preh Nachf. GMBH & Co., Bad Neustadt/Saale, DEX

CORE TERMS: layer, carrier, intermediate, resistor, substrate, conductor,
oxide, strips, lamination, printed ...

353. 4722197 , February 2, 1988 , High-efficiency, ambient-assisted, integrated
heating and cooling system , McEntire, Byron, Redondo Beach, CA, 06746174, M
& H Research & Development Corp., Salt Lake City, UT

CORE TERMS: refrigerant, heating, panel, cooling, coil, valve, heat,
compressor, heat exchanger, energy ...

354. 4720170 , January 19, 1988 , Daylamp system , Learn, Jr., Martin P., 1985
Nautilus St. LaJolla, CA 92037, 06729173

CORE TERMS: heat, beam, heliostat, mirror, chamber, pipe, energy, tracking,
illumination, solar ...

355. 4717645 , January 5, 1988 , Method and apparatus for forming resist pattern
, Kato, Yoshihide, Kawasaki, JPX; Kirita, Kei, Tokyo, JPX; Shinozaki, Toshiaki,
Yokohama, JPX; Shigemitsu, Fumiaki, Yokohama, JPX; Usuda, Kinya, Yokohama, JPX;
Tsuchiya, Takashi, Urawa, JPX, 06789366, Tokyo Shibaura Denki Kabushiki Kaisha,
Kawasaki, JPX

CORE TERMS: resist, cooling, substrate, film, chamber, mask, sensitivity,
prebaking, cooled, conveyor ...

356. 4711099 , December 8, 1987 , Portable quick chilling device , Polan, George
S., North Wales, PA; Glinecke, Hermann R., Morrisville, NJ, 06902242, Central
Sprinkler Corporation, Lansdale, PA

CORE TERMS: evaporator, coil, refrigerant, compressor, tubing, housing,
condenser, ring, operatively, inlet ...

357. 4710707 , December 1, 1987 , High voltage electronic component test
apparatus , Knowles, Terence J., Lincolnshire, IL; Ray, Francis M., Glenview,
IL; Shewey, Charles E., Mundelein, IL, 06692583, Zenith Electronics Corporation,
Glenview, IL

CORE TERMS: dielectric, chamber, electronic, high voltage, electrical, voltage,
electrode, vapor, measurement, testing ...

358. 4710397 , December 1, 1987 , Photoelectric conversion device and its manufacturing method , Yamazaki, Shunpei, Tokyo, JPX, 06620177, Semiconductor Energy Laboratory Co., Ltd., Tokyo, JPX

CORE TERMS: sub, electrode, semiconductor, layer, laminate, non-single-crystal, substrate, groove, external, terminal ...

359. 4706883 , November 17, 1987 , Pump heating system , Fleischmann, Dale, Box 38 Wausau, WI 54401, 06715752

CORE TERMS: heat, fluid, coil, conduit, heat exchanger, exchanger, compressor, pump, barn, thermostat ...

360. 4706740 , November 17, 1987 , Ventable survivable heat pipe vapor chamber spacecraft radiator , Mahefkey, Edward T., Beavercreek, OH, 07024489, The United States of America as represented by the Secretary of the Air Force, Washington, DC

CORE TERMS: heat, vapor, pipe, chamber, artery, rewet, medium, heat exchange, radiating, radiator ...

361. 4702783 , October 27, 1987 , Adhesive technology , Mason, III, William H., St. Paul, MN, 06436197, Uncommon Conglomerates, Inc., Minneapolis, MN

CORE TERMS: adhesive, fabric, screen, cyanoacrylate, frame structure, printing, taut, serigraphic, bonding, utilized ...

362. 4699709 , October 13, 1987 , Recovery of a carbonaceous liquid with a low fines content , Peck, Lawrence B., Glen Ellyn, IL, 06774560, Amoco Corporation, Chicago, IL

CORE TERMS: bitumen, solvent, fine, dissolved, solubility, parameter, carbonaceous, undissolved, sand, mixture ...

363. 4694375 , September 15, 1987 , Additives to prevent electrostatic charge buildup in fluids in high voltage systems , Devins, John C., Burnt Hills, NY; Dranchak, Matthew A., Mt. Laurel, NJ; Rząd, Stefan J., Rexford, NY, 06360264, General Electric Company, Schenectady, NY

CORE TERMS: additive, coolant, fluid, high voltage, insulating, electrical, conductivity, conduit, ionic, petroleum ...

364. 4693118 , September 15, 1987 , Pneumatic tire leak detector , Roberts, Simon, 30543 Shoreham Southfield, MI 48076, 06856007

CORE TERMS: tire, pigment, leak, valve, powdered, propellant, container, fitting, outlet, suspension ...

365. 4693087 , September 15, 1987 , Method of generating power from a vapor , Lagow, Ralph J., Anahuac, TX, 06844583, Thermal Engine Technology, Inc., Houston, TX

CORE TERMS: piston, volume, high pressure, low pressure, vapor, cylinder, working fluid, variable, valve, heat ...

366. 4692150 , September 8, 1987 , Tamper evident band , Cianci, James P., Gary, IL; Gross, James R., St. Charles, IL, 06780042, The Kendall Company, Boston, MA

CORE TERMS: band, catheter, drainage tube, adapter, connector, distal, tab, drainage, tamper-evident, proximal ...

367. 4686760 , August 18, 1987 , Method of making photoelectric conversion device , Yamazaki, Shunpei, Tokyo, JPX, 06846514, Semiconductor Energy Laboratory Co., Ltd., JPX

CORE TERMS: sub, electrode, semiconductor, layer, laminate, non-single-crystal, substrate, oxide, groove, conductive ...

368. 4685778 , August 11, 1987 , Process for nuclear hardening optics and product produced thereby , Pollock, David B., 13026 Percivale Dr. Huntsville, AL 35803, 06861962

CORE TERMS: substrate, beryllium, mirror, vapor, optical, coating, precision, completing, coated, grade ...

369. 4680001 , July 14, 1987 , Passive mold cooling and heating system , Waters, Michael A., Elk Grove Village, IL, 06827827, Application Engineering Corporation, Wood Dale, IL

CORE TERMS: mold, cooling, fluid, heat exchanger, heat, conduit, molding, closed loop, heating, pump ...

370. 4679986 , July 14, 1987 , Energy conserving refrigeration apparatus and method , Dupre, Milburn E., 2105 Chapel Dr. Fairborn, OH 45324, 06673320

CORE TERMS: compressor, refrigerant, refrigeration, piston, energy, compression, chamber, vacuum, gas, cycle ...

371. 4670294 , June 2, 1987 , Photoelectric conversion device and its manufacturing method , Yamazaki, Shunpei, Tokyo, JPX, 06620171, Semiconductor Energy Laboratory Co., Ltd., Tokyo, JPX

CORE TERMS: sub, electrode, semiconductor, layer, laminate, non-single-crystal, substrate, conductive, groove, oxide ...

372. 4664392 , May 12, 1987 , Seal assembly for a vehicle air conditioning compressor , Hatch, Frederick R., Ann Arbor, MI, 06857399, The Mather Company, Sylvania, OH

CORE TERMS: seal, annular, shaft, compressor, housing, sealing, sleeve, main body, periphery, inwardly ...

373. 4660629 , April 28, 1987 , Continuously acting adsorption devices and process for their operation , Maier-Laxhuber, Peter, Saumweberstrasse 14 8000 Munchen 60, DEX; Kaubek, Fritz, Gasparistrasse 5 A 8000 Munchen 71, DEX, 06668028

CORE TERMS: adsorption, heat, container, zone, carrier, segment, cooling, heating, boiling, rotational ...

374. 4644803 , February 24, 1987 , Force measurement apparatus and method , Ward, Roger W., Salt Lake City, UT, 06797599, Quartztronics, Inc., Salt Lake City, UT

CORE TERMS: housing, density, fluid, gas, tuning fork, frequency, vibration, bellows, tines, measurement ...

375. 4644796 , February 24, 1987 , Pressure measurement apparatus and method , Ward, Roger W., Salt Lake City, UT, 06808351, Quartztronics, Inc., Salt Lake City, UT

CORE TERMS: housing, density, fluid, gas, tuning fork, frequency, vibration, bellows, tines, measurement ...

376. 4642987 , February 17, 1987 , Process and equipment for the utilization of geothermic energy , Csorba, Istvan, Budapest, HUX; Szekely, Lajos, Budapest, HUX; Bodas, Sandor, Budapest, HUX, 06579809, Melyepitesi Tervezo Vallalat, Budapest, HUX

CORE TERMS: vapor, pipe, producing, heat, rock, energy, sub, geothermic, evaporation, thermal ...

377. 4642893 , February 17, 1987 , Shaving cooler , Borenstein, Charles, North Miami Beach, FL, 06710419, Cryo-Genics, Inc., Miami, FL

CORE TERMS: razor, cannister, receptacle, nozzle, fluid, shaving, elongate, funnel, cool, irregularities ...

378. 4640340 , February 3, 1987 , Heated or cooled steering wheel , Noda, Kazushi, Inazawa, JPX; Komatsu, Moriyuki, Nagoya, JPX; Mitsunaga, Hiroshi, Hirakata, JPX, 06663978, Toyoda Gosei Co., Ltd., Nishikasugai, JPX; Matsushita Electric Industrial Co., Ltd., Kadoma, JPX

CORE TERMS: heat, transducer, thermoelectric, steering wheel, generating, absorbing, ring, gripping, skin layer, driver ...

379. 4637071 , January 13, 1987 , Optical actuator , Pitt, Gillies D., Saffron Walden, GB2; Batchelder, David N., London, GB2; Jones, Roger E., Little Shelford, GB2; Neat, Rosamund C., London, GB2, 06675677, International Standard Electric Corporation, New York, NY

CORE TERMS: optical, fibre, actuator, radiation, freon, strip, heat, rod, capsule, actuation ...

380. 4633912 , January 6, 1987 , Hose construction , Pilkington, Mervin V., Akron, OH; Cole, Robert W., Sun Prairie, WI; Schisler, Robert C., Akron, OH, 06739659, The Goodyear Tire & Rubber Company, Akron, OH

CORE TERMS: hose, layer, friction, reinforcement, elastomeric, adhesive, rubber, calcium, tube, polyamide ...

381. 4631801 , December 30, 1986 , Method of making photoelectric conversion device , Yamazaki, Shunpei, Tokyo, JPX, 06776806, Semiconductor Energy Laboratory Co. Ltd., Tokyo, JPX

CORE TERMS: sub, electrode, semiconductor, layer, laminate, non-single-crystal, substrate, groove, photoelectric, conversion ...

382. 4628696 , December 16, 1986 , Heat generating system and method , Rodgers, Steven S., Hudson, NY, 06617588, Lord & Sons, Inc., Del Haven, NJ

CORE TERMS: heat, refrigerant, zone, compressor, evaporator, medium, heat exchange, superheated, evaporated, container ...

383. 4626197 , December 2, 1986 , Space heater , Kumazawa, Katsuyoshi, Yamato, JPX; Ohtsuki, Toshio, Yokohama, JPX; Komori, Minoru, Ebina, JPX, 06716457, Kabushiki Kaisha Toshiba, Kawasaki, JPX

CORE TERMS: wick, cylinder, combustion, heat, heating, pipe, combustion chamber, exposed, kerosene, region ...

384. 4623497 , November 18, 1986 , Passive mold cooling and heating method , Waters, Michael A., Elk Grove Village, IL, 06675877, Application Engineering Corporation, Wood Dale, IL

CORE TERMS: mold, cooling, fluid, heat, heat exchanger, conduit, molding, closed loop, pump, heating ...

385. 4619691 , October 28, 1986 , Method of manufacturing ultra-fine particles , Araya, Takeshi, Higashikurume, JPX; Matsunawa, Akira, Nishinomiya, JPX; Katayama, Seiji, Suita, JPX; Hioki, Susumu, Kashiwa, JPX; Ibaraki, Yoshiro, Ibaraki, JPX; Endo, Yoshishige, Ibaraki, JPX, 06795083, Hitachi, Ltd., Tokyo, JPX

CORE TERMS: energy, particle, gas, ultra-fine, laser, sub, plume, ambient, generation, arc ...

386. 4618427 , October 21, 1986 , Method of treating and breaking up a liquid with the help of centripetal force , Venas, Karl, Saupstad, NOX, 06694116, Ardal og Sundal Verk a.s., NOX

CORE TERMS: rotor, hole, gas, molten, magnesium, granules, rotating, hollow, treating, shaft ...

387. 4616400 , October 14, 1986 , Process for fabricating a double recess channel field effect transistor , Macksey, Harry M., McKinney, TX; Hudgens, Rick D., Irving, TX, 06684523, Texas Instruments Incorporated, Dallas, TX

CORE TERMS: layer, recess, photoresist, gate, etched, masking, double, gas, epitaxial, field effect transistor ...

388. 4614091 , September 30, 1986 , Process and device for cooling in containers , Frank, Martin, Frankenforster Strasse 8 5060 Berg. Gladbach 1, DEX; Plasemeier, Klaus, Vordersten Buchel 61 5064 Rosrath (Hoffnugsthal), DEX, 06733571

CORE TERMS: cooling, container, pipe, heat, effective, dry-ice, cooling system, sub, interior, drawer ...

389. 4613115 , September 23, 1986 , Temperature compensated gas spring , Smith, Richard C., Pittsburgh, PA, 06719633, Gas Spring Company, Division of Fichtel & Sachs Industries, Inc., Colmar, PA

CORE TERMS: gas, spring, volume, piston, rod, secondary, casing, inner tube, equation, tube ...

390. 4612798 , September 23, 1986 , Pneumatic tire leak detector and method , Roberts, Simon, 30543 Shoreham Southfield, MI 48076, 06750591

CORE TERMS: tire, pigment, leak, valve, powdered, propellant, container, fitting, outlet, suspension ...

391. 4612332 , September 16, 1986 , Novel polymeric foams and foaming compositions , Bock, Jan, Bridgewater, NJ; Downs, Hartley H., Annandale, NJ; Siano, Donald B., Lebanon, NJ; Pace, Salvatore J., Glen Gardner, NJ, 06808035, Exxon Research and Engineering Co., Florham Park, NJ

CORE TERMS: foam, polymer, surfactant, concentration, copolymer, aqueous, phase, gas, acrylamide, surface tension ...

392. 4611471 , September 16, 1986 , Ice making apparatus particularly for an ice rink , Ohashi, Kazuo, Tokyo, JPX, 06691269, Kabushiki Kaisha Patine Shokai, Tokyo, JPX

CORE TERMS: pipe, freezing, ice, thickness, rink, soft steel, coating, layer, refrigerant, synthetic resin ...

393. 4611361 , September 16, 1986 , Sheet materials for cleaning conveying rolls and guides of a facsimile apparatus , Shinkai, Takashi, Tokushima, JPX, 06709287, Purely Hanbai Co., Ltd., Tokushima, JPX; Awa Paper Manufacturing Co., Ltd., Tokushima, JPX

CORE TERMS: sheet, rolls, conveying, impregnated, cleaning fluid, absorbent, inside, nip, facsimile, delivery ...

394. 4610863 , September 9, 1986 , Process for forming transparent aerogel insulating arrays , Tewari, Param H., Milpitas, CA; Hunt, Arlon J., Oakland, CA, 06772528, The United States of America as represented by the United States Department of Energy, Washington, DC

CORE TERMS: aerogel, drying, transparent, alcohol, array, supercritical, alcogel, window, solvent, gel ...

395. 4606405 , August 19, 1986 , Heat transfer wall , Nakayama, Wataru, Kashiwa, JPX; Nakajima, Tadakatsu, Ibaraki, JPX; Kuwahara, Heikichi, Ibaraki, JPX; Yasukawa, Akira, Ibaraki, JPX; Daikoku, Takahiro, Ibaraki, JPX; Yoshida, Hiromichi, Hitachi, JPX, 06701161, Hitachi, Ltd., Tokyo, JPX; Hitachi Cable, Ltd., Tokyo, JPX

CORE TERMS: heat, void, sub, bubble, boiling, delta, vapor, lid, groove, sup ...

396. 4605470 , August 12, 1986 , Method for interconnecting conducting layers of an integrated circuit device , Gwozdz, Peter S., Cupertino, CA; Bath, Hubert M., Saratoga, CA, 06743205, Advanced Micro Devices, Inc., Sunnyvale, CA

CORE TERMS: layer, insulating, photoresist, micron, sloped, thickness, conductor, etch, oversized, conducting ...

397. 4604090 , August 5, 1986 , COMPACT IMPLANTABLE MEDICATION INFUSION DEVICE , Reinicke, Robert H., Mission Viejo, CA, 06554197, Consolidated Controls Corporation, El Segundo, CA

CORE TERMS: medication, chamber, reservoir, manifold, filter, inlet, check valve, pumping, insert, diaphragm ...

398. 4597565 , July 1, 1986 , TEMPERATURE COMPENSATED GAS SPRING MECHANISM , Smith, Richard C., Pittsburgh, PA, 06644498, Fichtel & Sachs Industries, Inc., Colmar, PA

CORE TERMS: gas, sub, spring, rod, secondary, nitrogen, vapor, volume, equation, cylinder ...

399. 4597161 , July 1, 1986 , METHOD OF MAKING PHOTOELECTRIC CONVERSION DEVICE , Yamazaki, Shunpei, Tokyo, JPX, 06722006, Semiconductor Energy Laboratory Co., Ltd., Tokyo, JPX

CORE TERMS: sub, semiconductor, electrode, substrate, layer, laminate, non-single-crystal, photoelectric, conductive, conversion ...

400. 4596558 , June 24, 1986 , PULSED EXTERNAL MEDICATION DISPENSER , Smith, Timothy J. N., Kingston, CAX; van Eyken, Alois J., Kingston, CAX, 06775997, Queen's University at Kingston, Kingston, CAX

CORE TERMS: container, valve, injection, patient, port, pipe, pulse, electrical, metering, catheter ...

401. 4594997 , June 17, 1986 , SELF ACTUATED PENILE IMPLANT , Hakky, Said I., 185 Dagenham Road Rush Green, Romford, Essex RM7 OTL, GB2, 06670832

CORE TERMS: prosthesis, fluid, reservoir, chamber, bellows, collar, cylinder, rigid, rear, tube ...

402. 4592590 , June 3, 1986 , Hydraulic lifting mechanism for a chair or the like using a two phase working fluid , Slaats, Mathew A., Jasper, IN; Strange, Patrick E., Jasper, IN, 06770833, Kimball International, Inc., Jasper, IN

CORE TERMS: hydraulic, chamber, volume, flexible, reservoir, bag, lifting, conduit, working fluid, phase ...

403. 4586346 , May 6, 1986 , Gravity cooling coil device , St-Pierre, Guy, 1057 Montee Ste. Julie, Quebec, CAX, 06717654

CORE TERMS: coil, column, cooling, condensate, pan, evaporator, gravity, ceiling, channel, trough ...

404. 4586241 , May 6, 1986 , Photoelectric conversion device manufacturing method , Yamazaki, Shunpei, Tokyo, JPX, 06620098, Semiconductor Energy Laboratory Co., Ltd., Tokyo, JPX

CORE TERMS: sub, electrode, semiconductor, layer, laminate, non-single-crystal, substrate, groove, photoelectric, conversion ...

405. 4583749 , April 22, 1986 , Seal assembly for a vehicle air conditioning compressor , Hatch, Frederick R., Ann Arbor, MI, 06697429, The Mather Company, Sylvania, OH

CORE TERMS: seal, annular, shaft, compressor, housing, sealing, sleeve, main body, periphery, inwardly ...

406. 4582108 , April 15, 1986 , Tireinflation/deflation system , Markow, Edward G., Oakdale, NY; Kirsch, Jerome, Dix Hills, NY; Kopsco, M. Alan, Wantagh, NY, 06634420, Grumman Aerospace Corporation, Bethpage, NY

CORE TERMS: tire, wheel, gas, valve, inflation, deflation, generator, pulse, switch, transmitter ...

407. 4581225 , April 8, 1986 , Sustainedrelease intranasal formulation and

method of use thereof , Su, Kenneth S. E., Indianapolis, IN; Campanale, Kristina M., Noblesville, IN; Wilson, Harve C., Martinsville, IN, 06695491, Eli Lilly and Company, Indianapolis, IN

CORE TERMS: dobutamine, oleic acid, intranasal, sub, cannister, composition, catecholamine, emulsifier, compound, hydrochloride ...

408. 4579564 , April 1, 1986 , Polishing pad for a fine finish , Smith, Robert S., 1263 Emory St. San Jose, CA 95126, 06692506

CORE TERMS: particle, polishing, polyol, medium, silica, foam, mix, polished, abrasive, silicate ...

409. 4578406 , March 25, 1986 , Conductive polyurethane foam and process of contacting a polyurethane foam with a mixture of swelling agent and chemical additive , Volz, Robert A., West Chester, PA, 06684012, Scotfoam Corporation, Eddystone, PA

CORE TERMS: foam, additive, chemical, polyurethane, swelling, quaternary, ammonium, resistivity, polymer, fuel ...

410. 4578184 , March 25, 1986 , Process for non-destructive separation of mixtures containing plastics scrap , Rasmussen, Erik, Klampenborg, DKX, 06530578, Aktieselskabet Nordiske Kabel-OG Traadfabriker, Copenhagen, DKX

CORE TERMS: plastics, mixture, scrap, hydrocarbon, separating, density, cable, halogenated, fraction, freon ...

411. 4574639 , March 11, 1986 , Pressure force measurement apparatus and method , Ward, Roger W., Salt Lake City, UT, 06506314, Quartztronic, Inc., Salt Lake City, UT

CORE TERMS: housing, density, fluid, gas, tuning fork, frequency, vibration, bellows, tines, measurement ...

412. 4574097 , March 4, 1986 , Reinforced thixotropic gel composition . Honeycutt, Travis W., Irvine, CA, 06639339, Isopedix Corporation, Irvine, CA

CORE TERMS: composition, fibers, spheres, alpha, gel, monomer, thixotropic, esters, adhesive, solvent ...

413. 4572777 , February 25, 1986 , Recovery of a carbonaceous liquid with a low fines content , Peck, Lawrence B., Glenn Ellyn, IL, 06584719, Standard Oil Company (Indiana), Chicago, IL

CORE TERMS: bitumen, solvent, fine, dissolved, solubility, carbonaceous, parameter, sand, undissolved, mixture ...

414. 4570452 , February 18, 1986 , Earth-type heat exchanger for heat pump systems , Bingham, Grady A., Morehead City, NC, 06728232, Thermal Concepts, Inc., Morehead City, NC

CORE TERMS: coil, conduit, casing, exchanger, fluid, heat exchanger, path, tube, pipe, earth ...

415. 4563156 , January 7, 1986 , Rescueapparatus , Bissig, Josef E., 175 Emil Frey-Strasse CH-4142 Munchenstein, CHX, 06589065

CORE TERMS: floating, housing, rescue-unit, bottle, retainer, valve, leg, gas, spring, compressed ...

416. 4553457 , November 19, 1985 , Machining a cooled cylindrical optic to compensate for pressure distortion , Eitel, Frederick G., North Palm Beach, FL, 06505166, The United States of America as represented by the Secretary of the Air Force, Washington, DC

CORE TERMS: fluid, optical, cylindrical, optic, coolant, adapter, machining, finish, heat exchanger, mirror ...

417. 4548257 , October 22, 1985 , Bayonet tube heat exchanger , Williamson, William R., 8310 Pilgrim Rd. Pensacola, FL 32504, 06617760

CORE TERMS: tube, bayonet, sheath, fluid, shell, tube sheet, heat exchanger, heat, zone, chamber ...

418. 4529638 , July 16, 1985 , Thermal insulator , Yamamoto, Ryoichi, Neyagawa, JPX; Matsuo, Yoshihiro, Neyagawa, JPX; Mikoda, Masanari, Neyagawa, JPX; Asada, Yoshihiro, Yao, JPX, 06327018, Matsushita Electric Industrial Co., Ltd., both of, JPX; Matsushita Reiki Co., Ltd., both of, JPX

CORE TERMS: insulation, container, powder, evacuated, vacuum, insulator, resin, plastics, layer, gas ...

419. 4526013 , July 2, 1985 , Environmental protection system , Joy, John R., Brighton, MI, 06434857, Williams International Corporation, Walled Lake, MI

CORE TERMS: vapor, heat, condenser, generator, cycle, burner, filter, crew compartment, working fluid, compressor ...

420. 4525242 , June 25, 1985 , Desalting system utilizing solar energy , Iida, Tomimaru, 5-20-11, Todoroki, Setagaya-ku Tokyo, JPX, 06396827

CORE TERMS: seawater, heat, pipe, medium, heat-transfer, steam, heated, heat exchange, heat exchanger, collector ...

421. 4516629 , May 14, 1985 , Earth-type heat exchanger for heat pump system , Bingham, Grady A., Morehead City, NC, 06421143, Thermal Concepts, Inc., Morehead City, NC

CORE TERMS: coil, conduit, casing, exchanger, fluid, heat exchanger, path, tube, pipe, earth ...

422. 4513821 , April 30, 1985 , Lowering CO.sub.2 MMP and recovering oil using carbon dioxide , Shu, Winston R., Dallas, TX, 06576696, Mobil Oil Corporation, New York, NY

CORE TERMS: formation, oil, carbon dioxide, reservoir, sub, fluid, miscibility, injection, miscible, injecting ...

423. 4513346 , April 23, 1985 , Means to improve the dielectric performance of an insulative conduit with a flow of liquid dielectric coolant therein , Devins, John C., Saratoga, NY, 06488913, General Electric Company, Schenectady, NY

CORE TERMS: conduit, insulative, dielectric, coolant, conductance, path, high voltage, electrical, voltage, conductor ...

424. 4511589 , April 16, 1985 , Pasteurization of eggs , Padly, Yvan, La Tour-de-Peilz, CHX; Borgeaud, Roger, Vevey, CHX. 06483129, Societe d'Assistance Technique pour Produits Nestle S.A., Lausanne, CHX

CORE TERMS: egg, vessel, pasteurisation, cooled, scraped, heat exchanger, retention, sterile, minutes, conveniently ...

425. 4511556 , April 16, 1985 , Inactivation of a lipid virus , Purcell, Robert H., Boyds, MD; Feinstone, Stephen M., Washington, DC, 06386991, The United States of America as represented by the Department of Health and Human Services, Washington, DC

CORE TERMS: virus, chloroform, hepatitis, sub, chimpanzee, plasma, sup, viruses, lipid, vial ...

426. 4508756 , April 2, 1985 , Method for inhibiting oxidation of a copper film on ceramic body , Senda, Atsuo, Ootsu, JPX; Kasanami, Tohru, Otokuni, JPX; Nakagawa, Takuji, Kyoto, JPX, 06389251, Murata Manufacturing Co., Ltd., JPX

CORE TERMS: copper, film, ceramic, compound, electrode, halide, hydrocarbon, plating, semiconductive, subjected ...

427. 4507935 , April 2, 1985 , Overheat detecting device of an air conditioning system for automotive vehicles , Madarame, Michimasa, Konan, JPX; Ueda, Kaichi, Konan, JPX, 06487520, Diesel Kiki Co., Ltd., Saitama, JPX

CORE TERMS: refrigerant, detecting, diaphragm, overheat, evaporator, pipe, outlet, compressor, inlet, refrigerating ...

428. 4505710 , March 19, 1985 , Implantable fluid dispensing system , Collins, Earl R., 801 Craig Ave. La Canada, CA 91011, 06494544

CORE TERMS: diaphragm, chamber, reservoir, fluid, dispensing, valve, heater, external, volume, container ...

429. 4504524 , March 12, 1985 , Process for the remote coating of the surfaces of a cavity, as well as the application of this process , Auchapt, Pierre R., Bagnols, FRX; Ferlay, Aime J., Laudun, FRX, 06447656, Commissariat a l'Energie Atomique, Paris, FRX

CORE TERMS: cavity, enclosure, plug, container, toxic, solvent, dust, freon, coupled, silicone ...

430. 4501122 , February 26, 1985 , Liquid piston heat pump , Cutler, Donald R., Bolingbrook, IL, 06526461, Chicago Bridge & Iron Company, Oak Brook, IL

CORE TERMS: piston, condenser, evaporator, vapor, heat, enclosure, volume, phase, pipe, heat pump ...

431. 4494385 , January 22, 1985 , Method of preserving organ and apparatus for preserving the same , Kuraoka, Yasuo, Sapporo, JPX; Sakao, Nobuo, Sapporo, JPX, 06615212, Hoxan Corporation, Sapporo, JPX

CORE TERMS: organ, perfusing, proximity, container, blood, refrigerant, frozen, lowering, solidifying, gradually ...

432. 4494384 , January 22, 1985 , Apparatus for enhancing the performance of a vehicle air conditioning system , Lott, John, Auburndale, FL, 06553490, Lott,

Judy A., Auburndale, FL

CORE TERMS: cylinder, condensate, air conditioning, reservoir, spray, inlet, condenser, air flow, radiator, pipe ...

433. 4492725 , January 8, 1985 , Composite thermal insulator , Ishihara, Shoichi, Katano, JPX; Yoneno, Hiroshi, Nara, JPX; Yamamoto, Ryoichi, Neyagawa, JPX, 06514980, Matsushita Electric Industrial Co., Ltd., Osaka, JPX

CORE TERMS: activated, carbon, plastic, insulator, thermal, composite, container, gas, powder, heat ...

434. 4488918 , December 18, 1984 , Non-slip plastic film , Jofs, Jarl-Erik, Vaasa, FIX, 06498788, Oy Wiik & Hoglund AB, Vaasa, FIX

CORE TERMS: plastic, film, layer, peak, ridges, melt, thermoplastic, non-slip, stream, rupture ...

435. 4488838 , December 18, 1984 , Process and apparatus for feeding particulate material into a pressure vessel , Herud, Frank R., Williamsville, NY, 06381409, Textron Inc., Providence, RI

CORE TERMS: carbon dioxide, conveyor, gas, heat exchanger, slurry, coal, downstream, reactor, hopper, feed ...

436. 4487027 , December 11, 1984 , Hyperabsorption space conditioning process and apparatus , Macriss, Robert A., Deerfield, IL; Zawacki, Thomas S., Oak Park, IL, 06549461, Institute of Gas Technology, Chicago, IL

CORE TERMS: salt, refrigerant, cycle, generator, heat, absorber, heating, evaporator, absorption, saturated ...

437. 4476694 , October 16, 1984 , Absorption cooling and heating system , Kunugi, Yoshifumi, Ibaraki, JPX, 06459662, Hitachi, Ltd., Tokyo, JPX

CORE TERMS: refrigerant, generator, absorption, rich, heat, cooling, heating, gas, absorber, heating system ...

438. 4476159 , October 9, 1984 , High temperature adhesive silicone foam composition, foam generating system and method of generating foam , Mead, Judith W., Peralta, NM; Montoya, Orelia J., Albuquerque, NM; Rand, Peter B., Albuquerque, NM; Willan, Vernon O., Albuquerque, NM, 06564103, The United States of America as represented by the United States Department of Energy, Washington, DC

CORE TERMS: foam, solvent, sub, silicone, f502, container, adhesive, pressurized, vessel, polydimethylsiloxane ...

439. 4473435 , September 25, 1984 , Plasma etchant mixture , Zafiropoulo, Arthur W., Manchester, MA; Mayer, Jr., Joseph A., Hamilton, MA, 06477961, Drytek, Wilmington, MA

CORE TERMS: etching, layer, wafer, sub, film, undercutting, gas, silicon dioxide, polysilicon, plasma ...

440. 4471833 , September 18, 1984 , Augmentation method of boiling heat transfer by applying electric fields , Yabe, Akira, Toride, JPX; Taketani, Takao, Ibaraki, JPX; Kikuchi, Kentaro, Tokyo, JPX, 06411425, Agency of Industrial

Science & Technology, Tokyo, JPX; Ministry of International Trade & Industry, Tokyo, JPX

CORE TERMS: heat, sub, boiling, electric field, medium, flux, interface, vapor, instability, heat exchange ...

441. 4465549 , August 14, 1984 , Method of removing a glass backing plate from one major surface of a semiconductor wafer , Ritzman, Ira G., Paradise, PA, 06574169, RCA Corporation, New York, NY

CORE TERMS: wafer, glass, imager, holder, impervious, acid, thinned, etching, etch, backing ...

442. 4464504 , August 7, 1984 , Freon-corrosion, impact and cold resistant flame-retardant polystyrene blend containing zeolites having cation(s) of Mg, Co, Sb, or Mo , Kocsis, Jozsef K., Budapest, HUX; Kiss, Laszlo, Budapest, HUX; Balajthy, Zoltan, Budapest, HUX; Nagy, Peter, Budapest, HUX; Pai nee Hazkoto, Gizella, Budapest, HUX; Zarubai, Miklos, Jaszbereny, HUX; Sipos, Geza, Jaszbereny, HUX; Romhanyi, Andras, Jaszbereny, HUX; Kokai, Rudolf, Jaszbereny, HUX, 06468588, Muanyagipari Kutato Intezet and Hutogepgyar, Budapest, HUX

CORE TERMS: polystyrene, sub, resistant, sup, zeolite, styrene, blend, resistance, corrosion, stress ...

443. 4453956 , June 12, 1984 , Recovering condensables from natural gas , Fabbri, Cesare, Milan, ITX; Bellitto, Gianfranco, Milan, ITX; La Mantia, Giuseppe, Cassano d'Adda, ITX; Failla, Biagio, Milan, ITX, 06390686, Snamprogetti S.p.A., Milan, ITX

CORE TERMS: gas, column, fractionation, turbine, separator, stream, feed, raw, intermediate, condensate ...

444. 4448040 , May 15, 1984 , Absorption type heat pump system , Kunugi, Yoshifumi, Ibaraki, JPX, 06396375, Hitachi, Ltd., Tokyo, JPX

CORE TERMS: heat pump, refrigerant, heat, condenser, absorber, evaporator, heating, outdoor, pump, absorbing ...

445. 4443926 , April 24, 1984 , Method of assembling shock absorbers , Pearson, Robert M., Plymouth, MI; Womac, Robert J., Belleville, MI, 06346476, Ford Motor Company, Dearborn, MI

CORE TERMS: cell, hydraulic fluid, container, gas, chamber, shock absorber, tubular, valve, piston, reservoir ...

446. 4442372 , April 10, 1984 , Piezo electric apparatus for generating electricity , Roberts, Walter M., Buffalo, NY, 06443229, Walton Energy Systems Co., Buffalo, NY

CORE TERMS: chamber, refrigerant, electric, piezo, condensing, generator, furnace, electricity, vaporized, aperture ...

447. 4438636 , March 27, 1984 , Heat-actuated air conditioner/heat pump , Morgan, Dean T., Sudbury, MA, 06390596, Thermo Electron Corporation, Waltham, MA

CORE TERMS: leg, heat, evaporator, condenser, channel, working fluid, cooling, sub, pipe, heat pump ...

448. 4437961 , March 20, 1984 , Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber , Routh, Donald E., Huntsville, AL; Sharma, Gian C., Huntsville, AL, 06409679, The United States of America as represented by the Administrator of the National Aeronautics and Space Administration, Washington, DC

CORE TERMS: wafer, vacuum, sputtering, chamber, interconnect, processing, turntable, gun, etching, layer ...

449. 4437321 , March 20, 1984 . Absorption cooling and heating system , Asai, Setsuro, Shimizu, JPX, 06416042, Hitachi, Ltd., Tokyo, JPX

CORE TERMS: heat, refrigerant, heating, valve, exchanger, heat exchanger, cooling, indoor, accumulator, defrosting ...

450. 4436581 , March 13, 1984 , Uniform etching of silicon (doped and undoped) utilizing ions , Okudaira, Sadayuki, Kokubunji, JPX; Saida, Hiroji, Kokubunji, JPX; Sakai, Yoshio, Hachioji, JPX; Nishimatsu, Shigeru, Kokubunji, JPX; Suzuki, Keizo, Hachioji, JPX, 06370147, Hitachi, Ltd., Tokyo, JPX

CORE TERMS: etching, silicon, film, gas, plasma, sub, sup, wafer, regions, concentration ...

451. 4434624 , March 6, 1984 , Energy-efficient all-electric ECS for aircraft , Cronin, Michael J., Sherman Oaks, CA; Seid, Gordon, Los Angeles, CA, 06248603, Lockheed Corporation, Burbank, CA

CORE TERMS: compressor, cabin, aircraft, cooling, engine, altitude, electric motor, valve, inlet, pressurization ...

452. 4432795 , February 21, 1984 , Sintered powdered titanium alloy and method of producing same , Andersen, Phillip J., Cleveland Heights, OH, 06349432, Imperial Clevite Inc., Rolling Meadows, IL

CORE TERMS: particle, alloy, titanium, density, sintered, powder, resultant, median, microns, mixture ...

453. 4429536 , February 7, 1984 , Liquefied natural gas-refrigerant electricity generating system , Nozawa, Reikichi, To-7-204, Tamagawa Jyutaku Somechi, Chohfu-shi, 182, JPX, 06323509

CORE TERMS: refrigerant, heat, freon, heat exchanger, plant, power plant, nitrogen, natural gas, steam power, condenser ...

454. 4426423 , January 17, 1984 , Ceramic, cermet or metal composites , Intrater, Josef, Englewood Cliffs, NJ; Bertoldo, Gene, New York, NY, 06415502, Advanced Technology Inc., Palisades Park, NJ

CORE TERMS: substrate, carbide, tin, carbonyl, atmosphere, joined, carbon monoxide, admixture, oxide, arsenide ...

455. 4425146 , January 10, 1984 , Method of making glass waveguide for optical circuit , Izawa, Tatsuo, Musashino, JPX; Mori, Hidefumi, Tokyo, JPX; Shimizu, Nobuo, Iruma, JPX; Murakami, Yasuji, Tokorozawa, JPX, 06213069, Nippon Telegraph & Telephone Public Corporation, Tokyo, JPX

CORE TERMS: glass, sub, layer, substrate, waveguide, particle, fine, refractive index, deposited, optical ...

456. 4424681 , January 10, 1984 , Hydraulic refrigeration system and method , Rice, Warren, Tempe, AZ; Hosterman, Craig, Scottsdale, AZ, 06388227, Natural Energy Systems, Tempe, AZ

CORE TERMS: refrigerant, fluid, carrier, sub, pipe, equation, refrigeration, compressor, pump, gaseous ...

457. 4423956 , January 3, 1984 , Vapor deposit contact printing method and apparatus , Gordon, Robert A., Rochester, NY, 06487994, Eastman Kodak Company, Rochester, NY

CORE TERMS: film, vapor, duplicating, photoconductive, layer, printer, manifold, exposure, station, print ...

458. 4422298 , December 27, 1983 , Liquefied natural gas-freon electricity generation system , Nozawa, Reikichi, To-7-204 Tamagawa Jyutaku, 3-1-71 Somechi, Chohfu-shi, Tokyo, JPX, 06315581

CORE TERMS: fwdarw, condenser, freon, cycle, heat, plant, steam power, turbine, heated, generation ...

459. 4421100 , December 20, 1983 , Thermosyphon heat pipe hot water appliance , Yu, Ying-Nien, Marina del Rey, CA, 06333424, Ying Mfg. Corp., Gardena, CA

CORE TERMS: fluid, heat, collector, solar, tank, ducting, duct, header, heated, reservoir ...

460. 4413480 , November 8, 1983 , Hyperabsorption space conditioning process and apparatus , Macriss, Robert A., Deerfield, IL; Zawacki, Thomas S., Oak Park, IL, 06365792, Institute of Gas Technology, Chicago, IL

CORE TERMS: salt, generator, refrigerant, cycle, absorber, absorption, heat, cooling, heating, vapor ...

461. 4413280 , November 1, 1983 , X-Ray imaging apparatus , Adlerstein, Joseph K., Kew Gardens, NY; Nitka, Heinz F., Binghamton, NY; Naiman, Charles S., Brookline, MA; Weiss, Aryeh, Cambridge, MA, 06249909, Xyram Corporation, Tuckahoe, NY

CORE TERMS: x-ray, array, electrical, stored, digital, imaging, gas, processing, ionizable, chamber ...

462. 4408468 , October 11, 1983 , System comprising at least one absorption heat pump , Alefeld, Georg, Josef-Raps-Strasse 3 Munich 40, DEX; Maier-Laxhuber, Peter, Munich, DEX, 06188120, Alefeld, Georg, Munich, DEX

CORE TERMS: heat, medium, absorption, heat pump, heating, generation, evaporator, valve, cooling, sorption ...

463. 4407907 , October 4, 1983 , Air electrode , Takamura, Tsutomu, Yokohama, JPX; Sato, Yuichi, Atsugi, JPX; Nakamura, Toshiaki, Yono, JPX; Suzuki, Nobukazu, Tokyo, JPX, 06325753, Tokyo Shibaura Denki Kabushiki Kaisha, Kawasaki, JPX

CORE TERMS: electrode, oxygen, compound, reduction, solvent, perfluoro, powder, porous, carbon, heavy duty ...

464. 4407778 , October 4, 1983 , Freon gas detecting element Shiratori

Masayuki, Kawasaki, JPX; Katsura, Masaki, Yososuka, JPX, 06293963, Tokyo
Shibaura Denki Kabushiki Kaisha, Kawasaki, JPX

CORE TERMS: gas, sub, detecting, freon, sensitivity, catalyst, sio,
semiconductor, layer, oxide ...

465. 4405379 , September 20, 1983 , Method for cleaning metal parts , Chasteen,
Jack W., Kettering, OH, 06314594, University of Dayton, Dayton, OH

CORE TERMS: sub, ratio, atmosphere, cleaning, fluoride, chromium, oxide, alloy,
hydrogen, region ...

466. 4393105 , July 12, 1983 . Method of fabricating a thermal pane window and
product , Kreisman, Wallace S., Malden, MA, 06255641, Spire Corporation,
Bedford, MA

CORE TERMS: pane, glass, thermal, window, spacer, bonding, gas, stress, door,
interface ...

467. 4384828 , May 24, 1983 , Sliding vane compressor , Rembold, Helmut,
Stuttgart, DEX; Linder, Ernst, Muhlacker, DEX; Ruoff, Manfred, Stuttgart, DEX;
Dettling, Hubert, Waiblingen, DEX; Werner, Jurgen, Moglingen, DEX, 06178708,
Robert Bosch GmbH, Stuttgart, DEX

CORE TERMS: rotor, grooves, compressor, shaft, vane, chamber, medium,
spirally-shaped, sliding, housing ...

468. 4377831 , March 22, 1983 , Non-abrasive magnetic head cleaning system ,
Davis, C. Paul, Woodland Hills, CA; Sandor, Joseph, Reseda, CA, 06234576,
Innovative Computer Products Corp., Tarzana, CA

CORE TERMS: cleaning, disk, magnetic, jacket, flexible, pad, disk drive, drive,
saturated, expose ...

469. 4375367 , March 1, 1983 , Lower power, freon refrigeration assisted air
separation , Prentice, Alan L., Surbiton, GB2, 06255910, Air Products and
Chemicals, Inc., Allentown, PA

CORE TERMS: air stream, stream, refrigeration, heat exchanger, compressor,
column, sidestream, expander, feed, distillation ...

470. 4374158 , February 15, 1983 , Process for producing transparent shaped
article having enhanced anti- reflective effect , Taniguchi, Takashi, Shiga,
JPX; Mibae, Jiro, Otsu, JPX, 06205346, Toray Industries, Inc., Tokyo, JPX

CORE TERMS: coating, coated, lens, mixture, gas, inorganic, gamma, activated,
manner described, transparent ...

471. 4372123 , February 8, 1983 , Thermal-gravity engine , Austin, Kenneth L.,
909 E. Cypress Ave. Lompoc, CA 93436, 06298599

CORE TERMS: chamber, lever, storage, fluid, shaft, reciprocating, working
fluid, engine, ratchet, counterweight ...

472. 4370860 , February 1, 1983 , Method of and means for generating power from
a hot brine source , Assaf, Gad, Rehovot, ILX, 06155971, Solmat, Yavne, ILX

CORE TERMS: fluid, lift, tube, condenser, sub, heat, layer, brine, pond,

473. 4368209 , January 11, 1983 , Dough mixing for farinaceous foodstuff production , Tomlinson, David, Bolton, GB2, 06134180, Tweedy of Burnley Limited, Burnley, GB2

CORE TERMS: mixing, dough, chamber, energy, ingredients, jacket, bread, vane, input, fluid ...

474. 4365482 , December 28, 1982 , Device at heating or cooling unit , Langgard, Sixten, Box 75 736 00 Kungälv, SEX; Larsson, Lennart, Agnevågen 9 633 47 Eskilstuna, SEX, 06195607

CORE TERMS: freon, valve, compressor, evaporator, installation, condenser, gas, conduit, suction, tank ...

475. 4356699 , November 2, 1982 , Gas condensation . Rilett, John W., Hilltop House, Old Quarry Bibury, GB3, 06226827

CORE TERMS: gas, container, vapour, carbon dioxide, phase, condensation, screw, hollow, outlet, tank ...

476. 4356267 , October 26, 1982 , Enzyme immobilization in cellulosic hollow fibres , Callegaro, Lanfranco, Padova, ITX; Boniolo, Antonio, Saluggia, ITX; Denti, Ennio, Pino Torinese, ITX; Rosa, Umberto, Turin, ITX; Rossi, Valdano, San Benedetto Po, ITX, 06233702, Sorin Biomedica S.p.A., Saluggia, ITX

CORE TERMS: fibre, enzyme, lumen, minute, circulation, concentration, sup. bundle, aqueous, dialyzer ...

477. 4353218 , October 12, 1982 , Heat pump/refrigerator using liquid working fluid , Wheatley, John C., Del Mar, CA; Paulson, Douglas N., Del Mar, CA; Allen, Paul C., Solana Beach, CA; Knight, William R., Corvallis, OR; Warkentin, Paul A., San Diego, CA, 06154173, The United States of America as represented by the United States Department of Energy, Washington, DC

CORE TERMS: heat, working fluid, piston, fluid, displacer, regenerator, reservoir, psi, heat exchanger, utilized ...

478. 4350024 , September 21, 1982 , Heating system , Moll, Thorleif, Fjaras, SEX, 06197329, Cinderella AB, SEX

CORE TERMS: coil, pipe, gas, water heater, radiator, heat exchanger, heat, evaporator, compressor, medium ...

479. 4350018 , September 21, 1982 , Gas recovery system , Frank, Karl, Linz, DEX; Marnette, Ewald, Windhagen, DEX, 06245934, Kohlensaure-Werke Rud. Buse GmbH & Co., Bad Honningen, DEX

CORE TERMS: gases, tank, liquified, escaping, collecting, outlet, gas, storage tank, discharged, coolant ...

480. 4338376 , July 6, 1982 , High fluorocarbon content coating composition, method of application, and coated article , Kritztler, Steven, Cronulla, AUX, 06198315, Otis Elevator Company, Farmington, CT

CORE TERMS: composition, resin, coating, polymer, fluorocarbon, substrate, abrasion, silane, resistance, solvent ...

481. 4336837 , June 29, 1982 , Entirely passive heat pipe apparatus capable of operating against gravity , Koenig, Daniel R., Santa Fe, NM, 06233365, The United States of America as represented by the United States Department of Energy, Washington, DC

CORE TERMS: heat, pipe, gas, sub, evaporator, reservoir, vapor, venturi, condenser, envelope ...

482. 4335781 , June 22, 1982 , High power cooler and method thereof , Duffy, Victor P., Scottsdale, AZ, 06214829, Motorola Inc., Schaumburg, IL

CORE TERMS: heat, coolant, thermal, vapors, missile, honeycomb, high power, cooler, beeswax, electronic ...

483. 4334646 , June 15, 1982 , Method of solder reflow assembly , Campbell, Henry J., Melbourne Beach, FL, 06141100, Harris Corporation, Melbourne, FL

CORE TERMS: substrate, solder, reflow, pad, fixture, bath, surface tension, chip, hot bath, container ...

484. 4333753 , June 8, 1982 , Method of liquefying Freon gas , Kuraoka, Yasuo, Sapporo, JPX, 06168441, Hoxan Corporation, Sapporo, JPX

CORE TERMS: gas, tank, liquefied, liquefying, solenoid, heat exchange, medium, valve, cooling, tube ...

485. 4333314 , June 8, 1982 , Solar energy system and heat engine therefor , Allen, Robert W., 15916 Los Altos Fountain Valley, CA 92708, 06126947

CORE TERMS: tank, fluid, collector, sheet, chamber, heat, solar, conduit, advantageously, absorber ...

486. 4333017 , June 1, 1982 , Method and apparatus for closed loop vortex operation , O'Connell, John J., Box 10 Los Gatos, CA 95030, 06198476

CORE TERMS: vortex, tube, cold, working fluid, hot, loop, inlet, heat, outlet, bypass ...

487. 4330998 , May 25, 1982 , Liquefied natural gas-freon electricity generation system , Nozawa, Reikichi, 2-10-38 Ohokayama, Meguroku Tokyo, JPX, 05973735

CORE TERMS: fwardw, freon, condenser, cycle, heat, plant, steam power, turbine, heated, generation ...

488. 4327399 , April 27, 1982 , Heat pipe cooling arrangement for integrated circuit chips , Sasaki, Etsuro, Fuchu, JPX; Ohsaki, Takaaki, Tokyo, JPX, 06107646, Nippon Telegraph & Telephone Public Corp., Tokyo, JPX

CORE TERMS: substrate, integrated, cavity, heat, radiating, wick, ceramic, pipe, zone, wiring ...

489. 4324845 , April 13, 1982 , Metal-oxide-hydrogen cell with variable conductant heat pipe , Stockel, Joseph F., Rockville, MD, 06164382, Communications Satellite Corp., Washington, DC

CORE TERMS: heat, pipe, cell, electrode, battery, stack, passive, feedthrough, spacecraft, thermal ...

490. 4319900 , March 16, 1982 , Liquefactor , Gram, Anker, North Vancouver, CAX, 06137679, Cleanair Combustion Systems Ltd., British Columbia, CAX

CORE TERMS: gas, conduit, sieve, valve, port, stem, molecular, tower, natural gas, aperture ...

491. 4318443 , March 9, 1982 , Foam generating fire fighting device , Cummins, Mark A., 305 Delmas Lufkin, TX 75091, 06181716

CORE TERMS: foam, generating, tube, chamber, tank, container, fitting, ejector, propellant, aeration ...

492. 4314566 , February 9, 1982 , Air cooler for self-contained breathing system , Kiwak, Robert S., Northville, MI, 06182204, The Bendix Corporation, Southfield, MI

CORE TERMS: heat, gas, breathing, pipe, heat exchanger, recycled, oxygen, cylinder, high pressure, breathing apparatus ...

493. 4313840 , February 2, 1982 , Heat transfer oil and method for driving a Freon turbine , Komatsuzaki, Shigeki, Mito, JPX; Sato, Moriichi, Hitachi, JPX, 06128168, Agency of Industrial Science and Technology, Tokyo, JPX

CORE TERMS: freon, heat, oil, benzotriazole, phosphite, ester, tris, stability, tube, polyol ...

494. 4311908 , January 19, 1982 , Simple electronic apparatus for the analysis of radioactively labeled gel electrophoretograms , Goulianos, Konstantin, New York, NY; Smith, Karen K., New York, NY; White, Sebastian N., New York, NY, 06127042, The Rockefeller University, New York, NY

CORE TERMS: wire, anode, ionization, gas, radiation, slot, gel, beta, sup, coil ...

495. 4309877 , January 12, 1982 , Total energy system including means for utilizing supplementary heats , Tawse, Ian S., Downsview, CAX, 06185358, Co-Gen, Inc., Miami, FL

CORE TERMS: heat, pipe, fluid, air conditioning, refrigerant, heat exchanger, coil, valve, ejector, jet pump ...

496. 4309245 , January 5, 1982 , Process for manufacturing boron nitride fiber felt using a Fourdrinier machine , Tworek, John L., West Seneca, NY; Rignel, Gordon R., Clockport, NY, 06134903, Kennecott Corporation, Stamford, CT

CORE TERMS: fiber, boron, nitride, slurry, oxide, sub, screen, nitriding, medium, atmosphere ...

497. 4309244 , January 5, 1982 , Process for manufacturing boron nitride fiber mats , Tworek, John L., West Seneca, NY; Rignel, Gordon R., Clockport, NY, 06134765, Kennecott Corporation, Stamford, CT

CORE TERMS: fiber, boron, nitride, oxide, sub, slurry, nitriding, screen, mat, batt ...

498. 4306613 , December 22, 1981 , Passive cooling system . Christopher, Nicholas S., 56 Page Farm Rd. Sherborn, MA 01748, 06128573

CORE TERMS: enclosure, heat, energy, tank, rod, storage, cold, cooling, passive, heat exchanger ...

499. 4304660 , December 8, 1981 , Manufacture of refrigeration oils , Sequeira, Jr., Avilino, Port Arthur, TX; Chesluk, Ralph P., Nederland, TX; Platte, Howard J., Houston, TX, 06140148, Texaco Inc., White Plains, NY

CORE TERMS: solvent, raffinate, oil, extract, extraction, refrigeration, secondary, stock, tower, aromatic ...

500. 4294075 , October 13, 1981 , Single stage rankine and cycle power plant , Closs, Joseph J., 36 Jade cres. Brampton, Ontario, CAX, 06085533

CORE TERMS: freon, boiler, rankine, radio frequency, engine, energy, cycle, power plant, driving, gas ...

501. 4282924 , August 11, 1981 , Apparatus for mechanically clamping semiconductor wafer against pliable thermally conductive surface , Faretra, Ronald A., Melrose, MA, 06021362, Varian Associates, Inc., Palo Alto, CA

CORE TERMS: wafer, semiconductor, platen, clamping, cooling, ion, ring, curved, implantation, conductive ...

502. 4280126 , July 21, 1981 , Liquid level detector , White, Kenneth T., Chicago Heights, IL, 06039047, Chemetron Corporation, Chicago, IL

CORE TERMS: tank, transducer, container, ultrasonic, sonic, frequency, suppression, interface, reception, detector ...

503. 4276938 , July 7, 1981 , Method and appliance for fire extinguishing in enclosed compartment , Klimenko, Alexandr S., Leningradskoe shoose, 118, korpus 1, kv. 91 Moscow, SUX; Emelyanov, Igor V., Leningradsky prospekt, 60-A, kv. 137 Moscow, SUX; Krylov, Anatoly A., Eniseiskaya ulitsa, 11, kv. 95 Moscow, SUX; Yantovsky, Semen A., ulitsa 26 Bakinskikh komissarov, 3, korpus 3, kv. 240 Moscow, SUX, 05959416

CORE TERMS: compartment, container, fuse, thermal, capsule, miniature, extinguishant, appliance, freon, inhibitor ...

504. 4276687 , July 7, 1981 , Method of winding capillary fiber bundles , Schnell, William J., Wheeling, IL, 06041112, Baxter Travenol Laboratories, Inc., Deerfield, IL

CORE TERMS: bundle, fiber, sheet, reel, capillary, annular, wrapped, slot, winding, dialyzer ...

505. 4275734 , June 30, 1981 , Cryosurgical apparatus and method , Mitchiner, Robert K., Longmont, CO, 05824174, Valleylab, Inc., Boulder, CO

CORE TERMS: coolant, cylinder, defrost, valve, freeze, psi, gas, freezing, tip, necrosis ...

506. 4275563 , June 30, 1981 , Power-generating plant having increased circulating force of working fluid , Kuroda, Michio, Hitachi, JPX; Nakamura, Shozo, Hitachiouta, JPX; Tsukahara, Satoshi, Hitachi, JPX; Akatu, Yasuaki, Hitachi, JPX; Sugita, Shigehisa, Hitachi, JPX; Kaneko, Kojiro, Hitachi, JPX; Sakaguchi, Seiichiro, Hitachi, JPX; Oshima, Ryoichiro, Hitachi, JPX. 06004577.

Hitachi, Ltd., Tokyo, JPX

CORE TERMS: oil, heat exchanger, medium, freon, heat, sub, contact-type, heat-source, pump, cooler ...

507. 4267013 , May 12, 1981 , Method for dry-etching aluminum and aluminum alloys , Iida, Shinya, Tama, JPX; Ueki, Kazuyoshi, Ohme, JPX; Komatsu, Hideo, Hinodemachi, JPX; Mitzutani, Tatsumi, Kokubunji, JPX, 06045744, Hitachi, Ltd., Tokyo, JPX

CORE TERMS: sub, alloy, gas, freon, etch, plasma, volume, min, photoresist, etching ...

508. 4264814 , April 28, 1981 , Method for detecting trace impurities in gases , Freund, Samuel M., Santa Fe, NM; Maier, II, William B., Los Alamos, NM; Holland, Redus F., Los Alamos, NM; Beattie, Willard H., Los Alamos, NM, 06062372, The United States of America as represented by the United States Department of Energy, Washington, DC

CORE TERMS: impurity, sub, gas, infrared, sensitivity, liquefied, gases, absorption, trace, cell ...

509. 4261176 , April 14, 1981 , Thermodynamic assembly , Theyse, Frederik H., Bergisch Gladbach, DEX, 05866162, Verenigde Machinefabrieken Stork N.V., Amsterdam, NLX

CORE TERMS: heat, installation, compressor, energy, rotor, turbine, medium, vapor, machine, heat-exchanger ...

510. 4259433 , March 31, 1981 , Method for producing disk-recording plates , Mizobuchi, Yuzo, Asaka, JPX; Sato, Masamichi, Asaka, JPX; Takahashi, Tsunehiko, Asaka, JPX, 06032829, Fuji Photo Film Co., Ltd., Minami-ashigara, JPX

CORE TERMS: layer, etching, laser, thickness, recording, beam, disk-recording, sputter, sub, laser-sensitive ...

511. 4258554 , March 31, 1981 , Refrigerator , Asselman, George A. A., Eindhoven, NLX; van Mensvoort, Adrianus J., Eindhoven, NLX, 05911400, U.S. Philips Corporation, New York, NY

CORE TERMS: secondary, compartment, refrigerating, evaporator, condensor, gas, refrigerant, condensation, refrigerator, reservoir ...

512. 4257799 , March 24, 1981 , Method for producing small hollow spheres , Rosencwaig, Allen, Danville, CA; Koo, Jackson C., San Ramon, CA; Dressler, John L., Spring Valley, OH, 06061167, The United States of America as represented by the United States Department of Energy, Washington, DC

CORE TERMS: region, glass, microsphere, membrane, gel, droplet, hollow, transition, sub, glass-forming ...

513. 4255936 , March 17, 1981 , Heat pump water heater , Cochran, Robert W., P. O. Box 368 Lakeland, FL 33802, 05953038

CORE TERMS: refrigerant, heat exchanger, heat, earth, compressor, tap, fluid, passageway, pump, heated ...

514. 4251998 , February 24, 1981 , Hydraulic refrigeration system and method ,

Rice, Warren, Scottsdale, AZ; Hosterman, Craig, Scottsdale, AZ, 06012597,
Natural Energy Systems, Tempe, AZ

CORE TERMS: sub, equation, freon, refrigerant, pipe, fluid, refrigeration,
chamber, pump, down pipe ...

515. 4250428 , February 10, 1981 , Bonded cathode and electrode structure with
layered insulation, and method of manufacture , Oliver, David W., Schenectady,
NY; Trzaskos, Casmir R., Amsterdam, NY, 06037257, The United States of America
as represented by the Secretary of the Army, Washington, DC

CORE TERMS: sub, cathode, deposition, layer, grid, film, tungsten, vapor, tube,
insulation ...

516. 4250143 , February 10, 1981 , System for sterilizing objects , Bryan,
Coleman J., Merritt Island, FL; Wright, Jr., Edward E., Titusville, FL; Moyers,
Clyde V., Cape Canaveral, FL, 06046739, The United States of America as
represented by the Administrator of the National Aeronautics and Space
Administration, Washington, DC

CORE TERMS: gas, mixture, sterilizing, chamber, mixing, vessel, ethylene oxide,
sterilant, tubular, humidified ...

517. 4246209 , January 20, 1981 , Freezing inorganic particulate slurries ,
Smith-Johannsen, Robert, Incline Village, NV, 06016871, Ramu International,
Incline Village, NV

CORE TERMS: sol, particle, ceramic, slurry, lithium, freezing, mold, silica,
zirconia, stabilized ...

518. 4245768 , January 20, 1981 , Method of cold welding using ion beam
technology , Sater, Bernard L., Olmsted Falls, OH, 05929084, The United States
of America as represented by the Administrator of the National Aeronautics and
Space Administration, Washington, DC

CORE TERMS: welding, cold, ion, beam, contamination, interface, vacuum, layer,
oxide, clean ...

519. 4244191 , January 13, 1981 , Gas turbine plant , Hendriks, Rudolf, Velp,
NLX, 05971535, Thomassen Holland B.V., De Steeg, NLX

CORE TERMS: turbine, compressor, plant, shaft, axial, cycle, gas turbine,
single stage, casing, radial ...

520. 4240405 , December 23, 1980 , Solar water heater , French, Roger F., P.O.
Box 158 Jackson, NH 03846, 06034475

CORE TERMS: collector, condenser, inlet, solar, heat, outlet, accumulator,
conduit, drum, water heater ...

521. 4238925 , December 16, 1980 , Gas turbine system with oxygen vapor-fuel
system , Lowther, Frank E., Buffalo, NY, 05941298, Purification Sciences Inc.,
Geneva, NY

CORE TERMS: oxygen, turbine, fuel, combustion, gas, cycle, gases, burn, phase,
ratio ...

522. 4238559 , December 9, 1980 , Two layer resist system , Feng, Bai-Cwo,

Wappingers Falls, NY; Feng, George C., Poughkeepsie, NY, 05936435, International Business Machines Corporation, Armonk, NY

CORE TERMS: resist, layer, saturated, lift-off, developer, photoresist, substrate, dissolved, solvent, sensitizer ...

523. 4224925 , September 30, 1980 , Heating system , Movick, Nyle O., 4600 Macky Way Boulder, CO 80302, 05936340

CORE TERMS: heat, working fluid, reservoir, collector, storage, heat exchanger, vaporized, collecting, conduit, distributing ...

524. 4224802 , September 30, 1980 , Apparatus and process for vaporizing liquefied natural gas , Ooka, Isami, Osaka, JPX, 06024535, Osaka Gas Company, Limited, JPX

CORE TERMS: heat, natural gas, refrigerant, heat exchanger, liquefied, vaporized, exchanger, heat exchange, multitubular, intermediate ...

525. 4224389 , September 23, 1980 , Non-aqueous primary cell , Peled, Emanuel, Givatayim, ILX, 05925564, Ramot University Authority for Applied Research and Industrial Development Ltd., Tel-Aviv, ILX

CORE TERMS: electrolyte, anode, cell, sub, cathode, organic, volts, compound, lithium, interphase ...

526. 4220528 , September 2, 1980 , Process for disoxidating gas or water , Matsumoto, Masao, Tokushima, JPX; Manabe, Isao, Tokushima, JPX, 05946737, Otsuka Chemical Co., Ltd., Osaka, JPX

CORE TERMS: treating, gas, oxygen, hydrazine, concentration, ppm, disoxidated, dissolved oxygen, repeated, disoxidating ...

527. 4220195 , September 2, 1980 . Ion drag pumped heat pipe . Borgoyne, Milton J., Glen Burnie, MD; Mitchell, Archer S., Silver Spring, MD, 06042165, The United States of America as represented by the Secretary of the Navy, Washington, DC

CORE TERMS: pumping, pipe, heat, capillary, ion, fluid, surface tension, electrode, drag, condensate ...

528. 4218619 , August 19, 1980 , Multi-copy ion-valve radiography , Yang, Kei-Hsiung, Schenectady, NY; Gruenke, Lothar A., Schenectady, NY, 05942548, General Electric Company, Schenectady, NY

CORE TERMS: mesh, electrode, sub, ion, insulative, radiation, layer, magnitude, exposure, density ...

529. 4216659 , August 12, 1980 , Thermal system , French, Roger F., P.O. Box 158 Jackson, NH 03846, 06003631

CORE TERMS: heat, tank, waste water, hot water, thermal, switch, coil, pipe, vessel, medium ...

530. 4213305 , July 22, 1980 , Solar powered cooling apparatus , De Geus, Arie M., 6625 4th St., S. St. Petersburg, FL 33705, 05941755

CORE TERMS: evaporator, collector, refrigerant, vapor, solar, piston,

pressurized, vessel, radiation, gathering ...

531. 4202177 , May 13, 1980 , Energy production for complex geothermal waters , Garrett, Donald E., 110 N. Bristol St. Ojai, CA 93023, 05794080

CORE TERMS: geothermal, working fluid, heat, fluid, immiscible, phase, hot, mixture, turbine, vapor ...

532. 4196526 , April 8, 1980 , Drying plant, particularly for timber , Berti, Furio, Turin. ITX, 06008651, CEAF S.p.A., Turin, ITX

CORE TERMS: evaporator, chamber, drying, valve, condenser, port, timber, compartment, dehumidification, plant ...

533. 4195481 , April 1, 1980 , Power plant , Gregory, Alvin L., 5860 Callister Ave. Sacramento, CA 95819, 05843376

CORE TERMS: fluid, heat, engine, rotor, piston, valve, injector, stator, chamber, vapor ...

534. 4192706 , March 11, 1980 , Gas-etching device , Horiike, Yasuhiro, Tokyo, JPX, 05933846, Tokyo Shibaura Electric Co., Ltd., Tokyo, JPX

CORE TERMS: etching, gas, region, gas-producing, etched, electrode, vacuum, vessel, sub, oxygen ...

535. 4192662 , March 11, 1980 , Process for liquefying and rectifying air , Ogata, Shunji, Machida, JPX; Yamamoto, Yohei, Tokyo, JPX, 05863889, Japan Oxygen Co., Ltd., Tokyo, JPX; Tokyo Cryogenic Industries Co., Ltd., Tokyo, JPX

CORE TERMS: nitrogen, sup, piping, feed, heat exchanger, rectifier, compressed, freon, cold, cooled ...

536. 4188592 , February 12, 1980 , Closed cycle chemical laser , Buczek, Carl J., Manchester, CT; Freiberg, Robert J., Palm Beach Gardens, FL; Fradin, David W., Exton, PA; Chenausky, Peter P., Avon, CT, 05894776, United Technologies Corporation, Hartford, CT

CORE TERMS: gas, laser, loop, hydrogen, chamber, sulphur, hexafluoride, chemical, effluent, mixing ...

537. 4184784 , January 22, 1980 , Termination and method of terminating ropes or cables of aramid fiber or the like , Killian, Bruce A., Van Nuys, CA, 05921547, The Bendix Corporation, North Hollywood, CA

CORE TERMS: rope, strand, cable, fiber, tapered, collar, braided, tube, termination, aramid ...

538. 4182131 , January 8, 1980 , High efficiency air conditioner , Marshall, Ralph C., 14739-1/2 Oxnard St. Van Nuys, CA 91411; Consoli, Ronald P., 16853 Magnolia Blvd. Encino, CA 91436, 05964261

CORE TERMS: coil, cooling, condenser, condensing, adiabatic, wet bulb, inlet, pad, compressor, outlet ...

539. 4180604 , December 25, 1979 , Two layer x sist system , Feng, Bai-Cwo, Wappingers Falls, NY; Feng, George C., Poughkeepsie, NY, 05865814, International Business Machines Corporation, Armonk, NY

CORE TERMS: resist, layer, saturated, lift-off, developer, photoresist, substrate, dissolved, solvent, sensitizer ...

540. 4176003 , November 27, 1979 , Method for enhancing the adhesion of photoresist to polysilicon , Brower, Ronald W., Dayton, OH; Cohen, Jerome, Centerville, OH; Chen, Peter C., Sunnyvale, CA, 05879933, NCR Corporation, Dayton, OH

CORE TERMS: polysilicon, photoresist, adhesion, mask, layer, etching, silicon, oxide, plasma, oxygen ...

541. 4170115 , October 9, 1979 , Apparatus and process for vaporizing liquefied natural gas , Ooka, Isami, Osaka, JPX; Sato, Tomohiro, Osaka, JPX; Niwa, Kyohei, Osaka, JPX, 05813095, Osaka Gas Company, Limited, Osaka, JPX

CORE TERMS: natural gas, heat, refrigerant, estuarine, liquefied, heat exchanger, exchanger, vaporized, heated, countercurrent ...

542. 4166884 , September 4, 1979 , Position insensitive battery , McCartney, Joseph F., Solana Beach, CA; Shipman, William H., La Mesa, CA, 05942844, The United States of America as represented by the Secretary of the Navy, Washington, DC

CORE TERMS: battery, inner tube, electrolyte, lithium, cathode, tube, sub, volume, piston, sup ...

543. 4166146 , August 28, 1979 , Sandwich unit for wall coating , Koos, Tibor, 411 23 Goteborg, SE, 05877630

CORE TERMS: plastic, layer, flake, foil, sandwich, coating, heat, foam, thickness, insulating ...

544. 4160336 , July 10, 1979 , Method for treating fireants , Query, Grady W., 1725 Matthews Mint Hill Rd. Matthews, NC 28105; Query, O. Grady, 1742 Sam Rittenburg Blvd. Charleston, SC 29407, 05876204

CORE TERMS: fireant, tank, mixture, rod, insecticide, refrigerant, colony, eradication, trailer, hill ...

545. 4159359 , June 26, 1979 , Insulating material with low thermal conductivity, formed of a compacted granular structure , Pelloux-Gervais, Pierre, Grenoble, FRX; Goumy, Daniel, Saint Egreve, FRX, 05822327, L'Air Liquide Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude, FRX

CORE TERMS: powder, sup, thermal conductivity, density, particle, compacted, insulating, curve, compacting, insulator ...

546. 4159075 , June 26, 1979 , Hermetic bonded seal , Ljung, Bo H. G., Wayne, NJ; Koper, James G., Wayne, NJ, 05856714, The Singer Company, Little Falls, NJ

CORE TERMS: seal, bonded, indium, bonding, hermetic, wire, gold, laser, room temperature, glass ...

547. 4157015 , June 5, 1979 , Hydraulic refrigeration system and method , Hosterman, Craig, Scottsdale, AZ; Rice, Warren, Tempe, AZ, 05862119, Natural Energy Systems, Tempe, AZ

CORE TERMS: equation, sub, freon, pipe, fluid, refrigeration, refrigerant, down pipe, chamber, fwdarw ...

548. 4150494 , April 24, 1979 , Methods and apparatus for recovering solvents , Rothchild, Ronald D., South Orange, NJ. 05828375, Airco, Inc., Montvale, NJ

CORE TERMS: solvent, oven, vapor, curing, atmosphere, inert gas, vestibule, condenser, coating, supplied ...

549. 4149383 , April 17, 1979 , Internal vaporization engine , Spalding, Wesley H., 14232 N. Linden Rd. Clio, MI 48420, 05820222

CORE TERMS: engine, piston, valve, heat, oil, port, vaporization, jacket, solar, furnace ...

550. 4149034 , April 10, 1979 , Resolution enhanced sound detecting apparatus , Frosch, Robert A. Administrator of the National Aeronautics and Space Administration, with respect to an invention of, Pasadena, CA; Kendall, James M., Pasadena, CA, 05861392

CORE TERMS: mirror, sheet, noise, medium, fluid, gas, enclosure, heavy, waves, microphone ...

551. 4148122 , April 10, 1979 , Method for repairing vehicle bodies , Phillips, James T., 18831 Dixie Hwy. Homewood, IL; Kandl, Henry J., 18831 Dixie Hwy. Homewood, IL, 05850957

CORE TERMS: plastic, filler, rust, automobile, hole, cavity, repair, patch, polyester, repairing ...

552. 4146510 , March 27, 1979 , Flake- or sliver-like porous structure of polymeric material and process of producing same, and process of producing sheet-like structure therefrom , Miyanoki, Masahiko, Otake, JPX; Uotani, Takeshi, Otake, JPX; Itani, Fujio, Otake, JPX; Yoshihara, Toshi, Otake, JPX; Igawa, Masayuki, Otake, JPX; Okumura, Munehiro, Otake, JPX; Imao, Syoji, Otake, JPX; Taniyama, Yoshiaki, Otake, JPX, 05609442, Mitsubishi Rayon Company Limited, Tokyo, JPX

CORE TERMS: finely, inorganic, polymeric, sup, sheet, sub, autoclave, mixture, flake, sheet-like ...

553. 4146013 , March 27, 1979 , Solar-exothermic solution heat pump , Foulke, Willing B., 109 Greenridge Rd. Wilmington, DE 19804, 05793484

CORE TERMS: heat, salt, solar, dilution, heating, dilute, concentrated, fluid, solvent, energy ...

554. 4143649 , March 13, 1979 , Pump for closed circulation system , Foti, George, 1212 Port Washington Blvd. Port Washington, NY 11050, 05762437

CORE TERMS: pump, amplifier, thermal, fluid, reservoir, resistor, terminal, probe, tube, lamp ...

555. 4142511 , March 6, 1979 , Solar radiation collector devices and systems , Doughty, Ralph O., Bedford, TX; Goodwin, Donald W., Fort Worth, TX, 05798951, General Dynamics Corporation, Fort Worth, TX

CORE TERMS: collector, solar, radiation absorber, heat, chamber, energy

fluid, vacuum, collecting ...

556. 4141294 , February 27, 1979 , Fuel-air type bomb , Zaharia, Sidney D., Westminster, CO, 04823235, Beech Aircraft Corporation, Wichita, KS

CORE TERMS: bomb, cloud, fuse, detonator, explosive, chamber, fuel, fuel-air, housing, aerosol ...

557. 4134393 , January 16, 1979 , Solar energy collection , Stark, Virgil, 936 Fifth Ave. New York, NY 10021; Vayda, Alexandre, Lausanne, CHX; Rousset, Paul, Cannes, FRX, 05746065, Stark, Virgil, New York, NY

CORE TERMS: fluid, lens, energy, conduit, solar, lenses, collector, heat, channel, panel ...

558. 4126822 , November 21, 1978 , Electrostatic generator and motor , Wahlstrom, Sven E., 570 Jackson Dr. Palo Alto, CA 94303, 05801242

CORE TERMS: capacitor, voltage, battery, energy, electrical, dielectric, fluid, capacitance, generator, mercury ...

559. 4124263 , November 7, 1978 , Process for high voltage conditioning cathode ray tubes , Neuber, Ralph E., Seneca Falls, NY; Rehkopf, Charles H., Seneca Falls, NY, 05885740, GTE Sylvania Incorporated, Stamford, CT

CORE TERMS: electrode, cathode ray tube, conditioning, pin, electrical, container, grid, tube, high voltage, arcing ...

560. 4123663 , October 31, 1978 , Gas-etching device , Horiike, Yasuhiro, Tokyo, JPX, 05647448, Tokyo Shibaura Electric Co., Ltd., Tokyo, JPX

CORE TERMS: etching, gas, region, gas-producing, etched, vacuum, vessel, electrode, sub, oxygen ...

561. 4121958 , October 24, 1978 , Insulation board , Koonts, Lamonte R., Newton, NJ, 05835235, United States Mineral Products Company, Stanhope, NJ

CORE TERMS: sheet, porous, foam, laminate, layer, polyurethane, chemical, insulation, sample, skin ...

562. 4113435 , September 12, 1978 , Cryogenically controlled direct fluorination apparatus , Lagow, Richard J., Manchester, MA; Adcock, James L., Cambridge, MA; Maraschin, Norma J., Cambridge, MA, 05379876, Massachusetts Institute of Technology, Cambridge, MA

CORE TERMS: sub, zone, sup, reactor, fluorine, fluorination, min, helium, trap, cryogenic ...

563. 4113019 , September 12, 1978 , Inert gas generator based on air jet engine , Sobolev, Georgy Georgievich, ULITSA Schepkina, 47/3, kv. 64 Moscow, SU; Kozljuk, Anatoly Ivanovich, ULITSA Postysheva, 135, kv. 46 Donetsk, SU; Kolyshenko, Mikhail Vasilievich, ULITSA Artema, 161, kv. 6 Donetsk, SU; Makarenko, Valery Leonidovich, ULITSA Baikova, 30, kv. 2 Donetsk, SU; Vasilenko, Valentin Vasilievich, ULITSA Levitskogo, 23, kv. 2 Donetsk, SU; Vishnevsky, Leonid Denisovich, ULITSA Levitskogo, 27, kv. 8 Donetsk, SU; Kukhno, Viktor Ivanovich, ULITSA M. Ulyanovoi, 53, kv. 30 Donetsk, SU, 05679437

CORE TERMS: chamber, generator, inert gas, afterburning, diffuser, gas,

depression, jet engine, jet, nozzle ...

564. 4112149 , September 5, 1978 , Converting a diaphragm electrolytic cell to a membrane electrolytic cell , Babinsky, Andrew D., Chagrin Falls, OH, 05790756, Diamond Shamrock Corporation, Cleveland, OH

CORE TERMS: cell, membrane, matting, electrolytic, diaphragm, electrode, foraminous, film, slurry, cathode ...

565. 4111507 , September 5, 1978 , Apparatus for high voltage conditioning cathode ray tubes , Neuber, Ralph E., Seneca Falls, NY; Rehkopf, Charles H., Seneca Falls, NY, 05796744, GTE Sylvania Incorporated, Stamford, CT

CORE TERMS: electrode, cathode ray tube, conditioning, pin, electrical, container, grid, tube, high voltage, arcing ...

566. 4110821 , August 29, 1978 , Semiconductor device having a semiconductor accommodated in a sealed vessel , Hisano, Hiroshi, Fuchu, JP; Sato, Kyoichi, Yokohama, JP, 05760739, Tokyo Shibaura Electric Co., Ltd., Kanagawa, JP

CORE TERMS: vessel, rectifier, sealed, switch, load, heating, semiconductor device, terminal, freon, semiconductor ...

567. 4104535 , August 1, 1978 , Hybrid electric power generating system , Bronicki, Yehuda L., Rehovoth, ILX, 05679757, Ormat Turbines (1965) Ltd., Yavne, ILX

CORE TERMS: converter, generator, vapor, fuel, energy, working fluid, heat, electrical, load, consumption ...

568. 4099417 , July 11, 1978 , Method and apparatus for detecting ultrasonic energy , Shwartzman, Stanley, Somerville, NJ, 05800277, RCA Corporation, New York, NY

CORE TERMS: energy, transducer, beam, ultrasonic, chamber, cleaning, detecting, tank, propagated, spray ...

569. 4095429 , June 20, 1978 , Solar gravity engine , Morey, Robert E., 18 Cumberland Rd. Hamilton Square, NJ 08690, 05794292

CORE TERMS: conduit, chamber, condensing, valve, fluid, ambient, vapor, altitude, external, evaporating ...

570. 4094356 , June 13, 1978 , Geothermal heat recovery system , Ash, Whewell Frank, 1095 Capital Hill Reno, NV 89502; Ash, Frank Robert, 834 Shriver Blvd. Sparks, NV 89403, 05757379

CORE TERMS: heat, working fluid, absorber, pipe, geothermal, gas, heat exchanger, valve, energy, thermostatic ...

571. 4092436 , May 30, 1978 , Method of steam-stripping roast and ground coffee or tea , MacDonald, Dennis L., West Lafayette, IN; Weikel, James August, Forest Park, OH, 05747572, The Procter & Gamble Company, Cincinnati, OH

CORE TERMS: coffee, extraction, roast, column, vessel, prewetting, steam, distillation, particle, volatile ...

572. 4091613 , May 30, 1978 , Independent power generator , Young, Richard N.,

Yorktown, VA, 05710036, The United States of America as represented by the Administrator of the National Aeronautics and Space Administration, Washington, DC

CORE TERMS: compressor, aircraft, duct, auxiliary, cabin, turbine, engine, first stage, bleed, ram ...

573. 4089744 , May 16, 1978 , Thermal energy storage by means of reversible heat pumping , Cahn, Robert P., Millburn, NJ, 05738604, Exxon Research & Engineering Co., Linden, NJ

CORE TERMS: heat, steam, stored, storage, hot, fluid, heat exchanger, thermal, energy, hot water ...

574. 4087458 , May 2, 1978 , Process for preparation of 2-(amylbenzoyl)benzoic acid , Emori, Fumitoshi, Gojoh, JA; Iwasaki, Yasuhisa, Ikoma, JA; Yoshimura, Takao, Nara, JA, 05794620, Yamamoto Kagaku Gosei Co., Ltd., Yao, JA

CORE TERMS: acid, mole, t-amq, t-amb, s-amq, s-amb, ratio, phthalic, anhydride, isomers ...

575. 4081352 , March 28, 1978 , Combination extraction-dewaxing of waxy petroleum oils , West, Theodore H., Sarnia, CA; Eagen, John F., Sarnia, CA; Gudelis, David A., Sarnia, CA, 05696888, Exxon Research & Engineering Co., Linden, NJ

CORE TERMS: zone, solvent, oil, wax, raffinate, dewaxing, extraction, chilling, extract, dilution ...

576. 4079590 , March 21, 1978 , Well stimulation and systems for recovering geothermal heat , Sheinbaum, Itzhak, 2038 E. Altadena Dr. Altadena, CA 91001, 05565389

CORE TERMS: fluid, geothermal, working fluid, heat, zone, vapor, contactor, tray, rock, hot ...

577. 4063419 , December 20, 1977 , Energy production from solar ponds , Garrett, Donald E., 505 W. Ninth St. Claremont, CA 91711, 05741334

CORE TERMS: pond, solar, energy, working fluid, heat, brine, evaporation, fluid, hot, immiscible ...

578. 4062915 , December 13, 1977 , Stereo reticulated polymeric lace-like structure and process for making the same , Stricharczuk, Paul Thomas, Solon, OH; Lawson, Dennis Lee, Brunswick, OH, 05659412, The B. F. Goodrich Company, Akron, OH

CORE TERMS: polymer, fabric, reticulated, blend, blowing, polyurethane, die, polyester, acrylic, roll ...

579. 4061263 , December 6, 1977 , Method of bonding a dielectric substrate to a metallic carrier in a printed circuit assembly , Ohlstein, Herbert, Elmwood Park, NJ, 05725204, International Telephone and Telegraph Corporation, Nutley, NJ

CORE TERMS: carrier, substrate, tinned, solder, separately, metallic, plating, cleaned, bonded, flux ...

580. 4055632 , October 25, 1977 , Controllable gas generator , Hoffman, Robert T., Kailua, HI; Buecher, Roger W., Kailua, HI, 05753026, The United States of America as represented by the Secretary of the Navy, Washington, DC

CORE TERMS: pellets, container, valve, gas, interface, gas generator, partition, fluid, compartment, metallic ...

581. 4055050 , October 25, 1977 , Apparatus for and method of regasifying liquefied natural gas , Kozlov, Vladimir Borisovich, ULITSA Butlerova, 2, korpus 2, kv. 134 Moscow, SU, 05657297

CORE TERMS: plant, gas, fuel, steam power, liquefied, gaseous, consumption, pipeline, natural gas, regasifying ...

582. 4054647 , October 18, 1977 , Method and composition for removing undesirable odors from air , Harich, Jakob, Orlando, FL; Harich, Franz P., Orlando, FL, 05575982, Rush-Hampton, Inc., Longwood, FL

CORE TERMS: pulp, grapefruit, alcohol, skin, composition, propylene glycol, mixture, ultraviolet, agitation, reactant ...

583. 4054427 , October 18, 1977 , Method of recovering krypton and xenon nuclides from waste gases , Schroeter, Hans-Juergen, Essen, DT; Knoblauch, Karl, Essen, DT; Juentgen, Harald, Essen, DT; Kronauer, Peter, Essen, DT, 05536594, Bergwerksverband GmbH, Essen, DT

CORE TERMS: gas, adsorber, waste, conduit, krypton, xenon, rinsing, valve, gases, concentration ...

584. 4036728 , July 19, 1977 , Converting a diaphragm electrolytic cell to a membrane electrolytic cell , Babinsky, Andrew D., Chagrin Falls, OH, 05688842, Diamond Shamrock Corporation, Cleveland, OH

CORE TERMS: cell, membrane, matting, electrolytic, diaphragm, electrode, foraminous, slurry, film, cathode ...

585. 4031484 , June 21, 1977 , Portable chemical laser with gas recirculation , Freiberg, Robert J., South Windsor, CT; Fradin, David W., Manchester, CT; Chenausky, Peter P., West Hartford, CT; Biancardi, Frank R., South Windsor, CT, 05630828, United Technologies Corporation, Hartford, CT

CORE TERMS: laser, gas, medium, deuterium, gases, chemical, scrubber, fluoride, optical, sulfur ...

586. 4023712 , May 17, 1977 , Portable spray container device , Babiak, Ihor, 215 Renforth Drive Etobicoke, Ontario, CA; Klymciw, Ihor, 215 Renforth Drive Etobicoke, Ontario, CA, 05652886

CORE TERMS: spray, container, composition, portable, pressurized, covering, sprayable, taste, suspending, cap ...

587. 4023398 , May 17, 1977 , Apparatus for analyzing trace components , French, John Barry, 4 Thornbank Road Thornhill, Ontario, CA; Reid, Neil M., 165 Royal Orchard Blvd. Thornhill, Ontario, CA; Buckley, Janette A., 6 Teepee Court Willowdale, Ontario, CA, 05555202

CORE TERMS: ion, gas, orifice, vacuum, curtain, region, duct, chamber, fluid, aperture ...

588. 4019098 , April 19, 1977 , Heat pipe cooling system for electronic devices , McCready, Raymond George, South Bend, IN; Eggers, Philip Eugene, Worthington, OH, 05584313, Sundstrand Corporation, Rockford, IL

CORE TERMS: heat, module, pipe, channel, vapor, integrated, region, condenser, capillary, cooling ...

589. 4007601 , February 15, 1977 , Tubular sublimator/evaporator heat sink , Webbon, Bruce W., San Jose, CA, 05623187, The United States of America as represented by the Administrator of the National Aeronautics and Space Administration, Washington, DC

CORE TERMS: tube, sublimator, heat, ice, evaporator, cooling, casing, porous, fluid, vapor ...

590. 4006595 , February 8, 1977 , Refrigerant-powered engine , Forbes, William J., Cocoa, FL, 05645396, Orange State, Inc., Cocoa, FL

CORE TERMS: valve, tank, turbine, rotary, solenoid, vapor, port, bulb, sink, outlet ...

591. 3986665 , October 19, 1976 , Heating system for vehicles having an internal combustion engine , Kofink, Siegfried, Zell, Wurttemberg, DT; Reuter, Fritz, Esslingen, DT, 05554108, Eberspacher, J., Esslingen, Neckar, DT

CORE TERMS: heat, reservoir, chamber, heating, vacuum, medium, stored, exhaust, fluid, heating system ...

592. 3984224 , October 5, 1976 , Air conditioning system for a motor home vehicle or the like , Dawkins, Claude W., 4900 NW. 30 St. Oklahoma City, OK 73122, 05581102

CORE TERMS: compressor, conduit, heat, condenser, evaporator, medium, a-c, suction, blower, air conditioning ...

593. 3982526 , September 28, 1976 , Turning collectors for solar radiation , Barak, Amitzur Z., Chicago, IL, 05579179, The United States of America as represented by the United States Energy Research and Development Administration, Washington, DC

CORE TERMS: collector, axle, shadow, heat-expansive, polar, solar, heated, turning, pivot, noon ...

594. 3969164 , July 13, 1976 , Native oxide technique for preparing clean substrate surfaces , Cho, Alfred Yi, New Providence, NJ; Tracy, Jr., Joseph Charles, Romeo, MI, 05605041, Bell Telephone Laboratories, Incorporated, Murray Hill, NJ

CORE TERMS: substrate, sub, sup, layer, oxide, gallium, native, doped, n-type, epitaxial ...

595. 3963460 , June 15, 1976 , Method and apparatus for treating waste gases containing radioactive impurities, particularly krypton and xenon nuclides , Stumpf, Willy, Oberstedten, DT; Queiser, Horst, Hochstadt, DT; Juntgen, Harald, Essen, DT; Schroter, Hans-Jurgen, Essen, DT; Knoblauch, Karl, Essen, DT, 05458033, Licentia Patent-Verwaltungs-G.m.b.H., Frankfurt am Main, DT; Bergwerksverband GmbH, Essen-Kray, DT

CORE TERMS: gas, reactor, valve, rinsing, adsorption, waste, krypton, carbon, path, enrichment ...

596. 3960787 , June 1, 1976 , Process for preparing foamable synthetic resin granules , Isukamoto, Hiroji, Osaka, JA; Morikawa, Hisashi, Takasago, JA; Nakagawa, Masao, Takasago, JA; Kato, Shinji, Takasago, JA; Miyamoto, Masaki, Yokohama, JA; Yoda, Toichiro, Ibaragi, JA; Yoshihara, Katsuhiko, Ibaragi, JA, 05476823, Kanegafuchi Kagaku Kogyo Kabushiki Kaisha, Osaka, JA

CORE TERMS: granule, resin, polymerization, cells, foamed, fine, coarse, autoclave, styrene, foaming ...

597. 3959513 , May 25, 1976 , Method and system for producing a soft food product , Strohbach, John W., Cincinnati, OH; Williams, Robert M., Cincinnati, OH; Edwards, Jeffrey D., Cincinnati, OH; Newcomer, Christopher B., Cincinnati, OH, 05520204, The Kroger Company, Cincinnati, OH

CORE TERMS: tower, mix, pump, nitrous oxide, injected, filler, food, saturated, mixture, sensor ...

598. 3957437 , May 18, 1976 , Method for detection of glycolates , Crabtree, Eleanor V., Towson, MD; Poziomek, Edward J., Bel Air, MD, 05470779, The United States of America as represented by the Secretary of the Army, Washington, DC

CORE TERMS: sub, glycolate, detection, incapacitating, composition, chemical, mixture, grams, aliphatic, sup ...

599. 3957107 , May 18, 1976 , Thermal switch , Altoz, Frank E., Baltimore, MD; Porter, Richard F., Millersville, MD, 05553700, The United States of America as represented by the Secretary of the Air Force, Washington, DC

CORE TERMS: heat, thermal, sink, bellows, cold, electronic, impedance, switch, watt, wick ...

600. 3954126 , May 4, 1976 , Automatic dispenser for the manufacture of ice cream in various single or mixed flavours and dispensing in cups and/or wafer cones , Piana, Giuseppe Stefano, Milan, IT, 05445338, Piana S.p.A., Milan, IT

CORE TERMS: ice cream, cup, dispenser, chamber, dispensing, containers, cone, compressor, ingredient, cooling ...

601. 3952519 , April 27, 1976 , Heat transfer system employing supercooled fluids , Watson, William K. R., San Diego, CA, 05375512, Kay Laboratories, Inc., San Diego, CA

CORE TERMS: heat, working fluid, medium, condensing, energy, chemical, sodium, acetate, melting, expander ...

602. 3945912 , March 23, 1976 , Urea dewaxing of low n-paraffin content oils , Kunert, Maximilian, Neu-Wulmstorf, DT; Wegner, Hans-Georg, Tangendorf, DT, 05484002, Deutsche Texaco Aktiengesellschaft, Hamburg, DT

CORE TERMS: urea, adduct, distillate, mixture, mineral oil, solvent, n-paraffin, oil, dewaxing, paraffin ...

603. 3943889 , March 16, 1976 , Heat distributing tanks for retarding surface freezing , Sparber, Frederick J., R.D. -1, Box 192-A Belen, NM 87002, 05562971

CORE TERMS: tank, heat, fluid, pipe, ice, stock, valve, fill, sandwich, freezing ...

604. 3938114 , February 10, 1976 , Gas-powered alarm with pressure responsive remote indicator circuit , Sullivan, Joseph T., Huntingdon Valley, PA, 05458062, Standard-Farrington Alarm & Signal Corporation, Trevose, PA

CORE TERMS: sensing, alarm, switch, heat, gas, freon, remote, trigger, chamber, powered ...

605. 3933003 , January 20, 1976 , Cryostat control , Markum, Arvel Dean, San Juan Capistrano, CA, 05538651, General Dynamics Corporation, Pomona, CA

CORE TERMS: refrigerant, cryostat, contaminant, cool-down, heat exchanger, cooling, cycle, steady state, joule-thomson, expansion valve ...

606. 3922154 , November 25, 1975 . Method for purification of sodium hydroxide , Kawasaki, Shigetake, Isehara, JA; Owa, Masaru, Hino, JA; Hayano, Ichiro, Ashigara, JA; Akiya, Takaji, Yokohama, JA; Takeuchi, Norio, Isehara, JA; Goto, Totaro, Kokubunji, JA; Ishizaka, Seiichi, Tokyo, JA, 05395072, Agency of Industrial Science & Technology, Tokyo, JA

CORE TERMS: sodium hydroxide, crystals, refrigerant, melted, sodium chloride, aqueous, separated, heat, electrolyzate, concentration ...

607. 3918149 , November 11, 1975 , Al/Si metallization process , Roberts, Gary, Mountain View, CA, 05484071, Intel Corporation, Santa Clara, CA

CORE TERMS: layer, silicon, aluminum, alloy, substrate, region, etch, evaporation, insulating, prior art ...

608. 3897506 , July 29, 1975 , Process for the production of freon , Yang, Kang, Ponca City, OK; Greenfield, Gaylord G., Ponca City, OK; Henry, Jr., Joseph D., Morgantown, WV, 05357751, Continental Oil Company, Ponca City, OK

CORE TERMS: sub, fwwarw, fluoride, sodium, hydrogen fluoride, sif, bifluoride, naf, nahf, integrated ...

609. 3896622 , July 29, 1975 , Mobile power generation device employing tropical water thermocline , Daniello, George T., 15704 Pamela Dr. Silver Spring, MD 20904, 05490845

CORE TERMS: housing, working fluid, cycle, piston, counterweight, energy, ocean, heat, energy conversion, thermocline ...

610. 3885939 , May 27, 1975 , Cryostat control , Markum, Arvel Dean, San Juan Capistrano, CA, 05464078, General Dynamics Corporation, Pomona, CA

CORE TERMS: refrigerant, cryostat, contaminant, cool-down, heat exchanger, cooling, cycle, steady state, joule-thomson, expansion valve ...

611. 3885398 , May 27, 1975 , Air conditioning system for a motor home vehicle or the like , Dawkins, Claude W., 4900 N.W. 30 St. Oklahoma City, OK 73122, 05423280

CORE TERMS: compressor, condenser, heat, conduit, medium, evaporator, suction, air conditioning, driven, blower ...

612. 3884414 , May 20, 1975 , Solar heating device , Baer, Stephen C., Corrales, NM, 05458913, Zomeworks Corporation, Albuquerque, NM

CORE TERMS: panel, interior, exterior, reservoir, canister, louver, energy, solar, tube, heat loss ...

613. 3879956 , April 29, 1975 , Ice crystal wash , Ganiaris, Neophytos, 3671 Hudson Manor Ter. Riverdale, NY 10463, 05355691

CORE TERMS: tank, brine, butane, conduit, ice crystals, crystal, fresh water, washed, fluid, withdrawn ...

614. 3876119 , April 8, 1975 , Inverting liner pressurized tank , Lamkin, James E., Tulsa, OK, 05335830, Denham, Lee Roy, Tulsa, OK; Spradling, Jack L., Bixby, OK

CORE TERMS: tank, liner, gas, pressurized, mixture, earth, condensible, inside, pipe, cylindrical ...

615. 3873745 , March 25, 1975 , Lyophilisation process in atmosphere of condensable gas , Rey, Louis, St. Legier, CH; Boulidoires, Jean-Pierre, La Tour-de-Peilz, CH; Rovero, Dominique, Chailly sur Clarens, CH, 05330755, Societe d'Assistance Technique pour Produits Nestle S.A., Lausanne, CH

CORE TERMS: chamber, condenser, medium, atmosphere, torr, solvent, gaseous, vapour, pump, sublimation ...

616. 3872714 , March 25, 1975 , Method and apparatus for testing a valve , Carlson, Jr., William L., St. Cloud, MN, 05437553, General Signal Corporation, Rochester, NY

CORE TERMS: valve, leakage, disc, testing, vapor, pneumatic, bubbles, boiling point, closure, fluid ...

617. 3845051 , October 29, 1974 , ALPHA, OMEGA-DI-S-TRIAZINYL PERFLUOROPOLYOXAALKANES , 057108623, MINNESOTA MINING AND MANUFACTURING COMPANY

CORE TERMS: atom, viscosity, amidine, carbon, anhydride, stirring, formula, slope, mole, perfluoropolyoxaalkane ...

618. 3840656 , October 8, 1974 , PROCESS FOR IMPROVING THE DURABILITY AND QUALITY OF A HAIR SET AND NEW PRODUCTS FOR CARRYING OUT THIS PROCESS , 057024417, L'OREAL S.A.

CORE TERMS: hair, composition, thiol, shampoo, disulfide, mixture, rollers, dried, acid, dithiodiglycerol ...

619. 3838577 , October 1, 1974 , WATER CRYSTALLIZATION , Graniaris, Neophytos, Riverdale, NY, 05355689, Struthers Patent Corp., Houston, TX

CORE TERMS: mixture, ice crystals, atmospheric pressure, direct contact, crystallization, concentrate, fresh water, refrigerant, proportion, hydrates ...

620. 3838073 , September 24, 1974 , POLY(FLUOROALKOXYPHOSPHAZENE)HOMOPOLYMERS , 057284200, HORIZONS RESEARCH INCORPORATED

CORE TERMS: polymer, solvent, acetone, poly, homopolymer, soluble.

fluoroalkoxyphosphazene, tetrahydrofuran, insoluble, benzene ...

621. 3837724 , September 24, 1974 , GAS PANEL FABRICATION , Haberland, Peter H., Woodstock, NY; Lay, Frank M., Woodstock, NY; Murphy, Thomas J., Rhinebeck, NY; Skolnik, Marvin B., Woodstock, NY; Spencer, Oliver S., Woodstock, NY; Wagner, Peter R., Lake Katrine, NY; Whitaker, Howard L., Kingston, NY; Wilson, Donald M., Kingston, NY, 05405205, International Business Machines Corporation, Armonk, NY

CORE TERMS: glass, gas, coating, panel, minute, electrical, layer, laminate, photoresist, dielectric ...

622. 3826304 , July 30, 1974 , ADVANTAGEOUS CONFIGURATION OF TUBING FOR INTERNAL BOILING , Withers, Jr., James G., Dearborn, MI; Dean, Harvey R., Dearborn, MI; Ross, Stuart T., Manlius, NY, 05086708, Universal Oil Products Company, Des Plaines, IL

CORE TERMS: tubing, tube, heat, boiling, refrigerant, rib, fluid, ribbing, helical, convolution ...

623. 3824799 , July 23, 1974 , WASH OF ICE CRYSTALS , Ganiaris, Neophytos, Riverdale, NY, 05355688

CORE TERMS: screen, ice crystals, crystal, tank, brine, ice, upward, washed, washing, tube ...

624. 3823427 , July 16, 1974 , AEROSOL HYDRAULIC DRAIN OPENER , Pittet, Gilbert H., West Paterson, NJ, 05353858, Lever Brothers Company, New York, NY

CORE TERMS: propellant, drain, aerosol, clogged, pipe, valve, actuator, liquefied, container, conduit ...

625. 3823145 , July 9, 1974 , REMOVAL OF IMPURITIES FROM POLYOLS , 057126343, BASF WYANDOTTE CORPORATION

CORE TERMS: polyol, solvent, centrifugal, molecular, adduct, mixture, hexane, oxide, polyol-solvent, separator ...

626. 3821129 , June 28, 1974 , METHOD AND APPARATUS FOR EXTRUSION OF THERMOPLASTICS , Johnson, David E., Macedon, NY, 05308386, Mobil Oil Corporation, New York, NY

CORE TERMS: extruder, molten, mixture, screw, extrusion, thermoplastic, secondary, zone, blowing, cooling ...

627. 3820382 , June 28, 1974 , METHOD AND APPARATUS FOR DETECTING LEAKAGES IN THE VACUUM SYSTEM OF MOTOR VEHICLES , Andres, Rudolf, Sindelfingen, DT; Moller, Hermann, Aidlingen, DT; Seyfried, Franz, Sindelfingen, DT, 05195671, Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, DT

CORE TERMS: vacuum, leakage, gas, detecting, detector, cooling, vacuum pump, air line, leak, motor vehicle ...

628. 3818487 , June 18, 1974 , SOFT CONTROL MATERIALS , Brody, Warren M., Armory Rd. Milford, NH 03055; Johnson, Avery R., Armory Rd. Milford, NH 03055, 05283523

CORE TERMS: freon, tube, bag, layer, heat, valve, muscle, fluid, gas, soft ...

629. 3811422 , May 21, 1974 , CHEMICAL HEATER TUBE , Olson, Donald R., State College, PA, 05296361, The United States of America as represented by the Secretary of the Navy, Washington, DC

CORE TERMS: heat, container, tube, heater, alkali, sub, fluorocarbon, cartridge, reactant, heating ...

630. 3808595 , April 30, 1974 , CHAFF DISPENSING SYSTEM , Coop, William Henry, Torrance, CA; Christian, Robert Dale, Santa Ana, CA; Gaffney, John Stiles, Santa Ana, CA, 05349968, Celesco Industries Inc., Costa Mesa, CA

CORE TERMS: chaff, slurry, container, gas, particles, bladder, carrier, aperture, dispensing, density ...

631. 3804769 , April 16, 1974 , SOLVENT COMPOSITIONS , 057229545, IMPERIAL CHEMICAL INDUSTRIES PLC

CORE TERMS: solvent, composition, boiling, mixture, flux, trichloropentafluoropropane, azeotrope, azeotropic, cleaning, methanol ...

632. 3801585 , April 2, 1974 , PREPARATION OF 3,4-DICYANO-1,2,5-THIADIAZOLE FROM HCN, TRIMETHYLAMINE, CHLORINE, AND SULFUR OR SULFUR DICHLORIDE , 057185347, E. I. DU PONT DE NEMOURS AND COMPANY

CORE TERMS: amine, sulfur, atom, tertiary, carbon, compound, nitrogen, dichloride, chlorine, trimethylamine ...

633. 3798876 , March 26, 1974 , ABATEMENT OF AIR POLLUTION FROM ORGANIC COMPOUNDS WITH POLYMERIC ADSORBENTS , Kennedy, David C., Malvern, PA, 05203444, Rohm and Haas Company, Philadelphia, PA

CORE TERMS: resin, organic, carbon, gram, sup, adsorbent, activated, vapor, cycle, regeneration ...

634. 3792022 , February 12, 1974 , PERFLUORO ADDITION POLYMERS , 057301454, TRW INC.

CORE TERMS: anhydride, perfluoro, compound, peroxide, cf2, polymer, tube, catalyst, reactant, ether ...

635. 3791044 , February 12, 1974 , THROUGH DRYING FOR FIBROUS WEB , Busker, Leroy H., Rockton, IL; Daane, Robert A., Rockton, IL, 05260807, Beloit Corporation, Beloit, WI

CORE TERMS: web, drying, steam, heat, zone, separator, chamber, fluid, dryer, immiscible ...

636. 3788666 , January 29, 1974 , PROTECTION SYSTEM , Kramer, Jack M., Los Angeles, CA; Sitabkhan, Abdul N., El Monte, CA, 05166528, HTL Industries, Inc., Monrovia, CA

CORE TERMS: bag, fluid, valve, container, switch, inlet, passenger, bushing, inflatable, collision ...

637. 3782979 , January 1, 1974 , SPRAY SHOE POLISH , 057286247, Individually Owned

CORE TERMS: shoe, wax, plasticizer, cellulose, silicone, shoe polish, build-up,

cracking, pigment, diethyl ...

638. 3781200 , December 25, 1973 , FLUOROCARBON AND OXYGEN-PROVIDING COMPOUND TREATMENT OF WASTE WATERS , 057290159, Individually Owned

CORE TERMS: oxygen, body of water, pipe, container, fat, waste water, soluble, h202, hydrogen peroxide, mixture ...

639. 3780534 , December 25, 1973 , LIQUEFACTION OF NATURAL GAS WITH PRODUCT USED AS ABSORBER PURGE , Lofredo, Antony, Springfield, NJ; Biava, Domenick R., Somerset, NJ, 04843427, Airco, Inc., New York, NY

CORE TERMS: stream, conduit, nitrogen, gas, natural gas, cycle, feed, column, cooled, compressor ...

640. 3776925 , December 4, 1973 , CYCLIC ORGANIC COMPOUNDS , 057162262, COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION

CORE TERMS: compound, insecticidal, mixture, solvent, methoxy, flies, ethoxy, insect, ether, potentiator ...

641. 3776873 , December 4, 1973 , SPRAYABLE COMPOSITIONS , 046746245, MINNESOTA MINING AND MANUFACTURING COMPANY

CORE TERMS: acid, composition, salt, sulfonic, polymeric, aerosol, sprayable, polymer, carbonated, mixture ...

642. 3774392 , November 27, 1973 , INSTALLATION INCLUDING A PRIME MOVER AND MEANS FOR EXTRACTING ENERGY FROM A HOT FLUID MEDIUM AND USING IT TO DRIVE THE PRIME MOVER , Davies, John Moseley, Lavender Cottage, Weeden Ln. Amersham, EN; Clarke, John Colin, Darien 6 Abbey Ln. Northwich, EN, 05215894

CORE TERMS: refrigerant, vapor, prime mover, emulsion, vessel, fluid, heat exchanger, heat, hot, exchanger ...

643. 3772314 , November 13, 1973 , 2-HYDROXYMETHYL-3-BENZYLOXY-6-PYRIDINECARBOXALDEHYDE, INTERMEDIATE FOR PREPARING BRONCHODILATORS , 057256840, PFIZER INC.

CORE TERMS: bronchodilator, pyridinecarboxaldehyde, cardiovascular, intermediate, selectivity, salbutamol, aminoethyl, pulmonary, compounds, cardiac ...

644. 3770633 , November 6, 1973 , ANTI-ICING AND LUBRICATING COATING COMPOSITION , 057194901, HOLLEY, DANFORTH

CORE TERMS: polysiloxane, coating, snow, composition, silica, compound, ether, ethylene glycol, mixture, methyl ...

645. 3759181 , September 18, 1973 , ANTI-DISTURBANCE FUZE , Mellen, George P., Wayzata, MN, 05219620, The United States of America as represented by the Secretary of the Army, Washington, DC

CORE TERMS: rotor, firing pin, clutch, counterweight, spring, anti-disturbance, cam, safe, arming, fuze ...

646. 3757516 , September 11, 1973 , GEOTHERMAL ENERGY SYSTEM , McCabe, Barkman C., Los Angeles, CA, 05180342, Magma Energy Inc., Los Angeles, CA

CORE TERMS: geothermal, hot water, fluid, heat, pump, energy, turbine, exchange r, plant, steam ...

647. 3753656 , August 21, 1973 , GAS CHROMATOGRAPH , Matson, James H., Kent, WA; Goings, Robert, Washington, DC, 05132029, The United States of America as represented by the Secretary of the Navy, Washington, DC

CORE TERMS: gas, sub, sample, column, detector, hydrocarbon, chromatographic, gases, carrier, valve ...

648. 3745652 , July 17, 1973 , DENTURE ADHERENCE DEVICE , Alderman, Roy, 700 Carriage Hill Rd. Virginia Beach, VA, 05251260

CORE TERMS: denture, cavity, gum, cylindrical, suction, chamber, user, seal, hole, artificial ...

649. 3741723 , June 26, 1973 , TREATING KERATINIC FIBERS WITH POLYSULFHYDEYLATED POLYMERS , 057112759, L'OREAL S.A.

CORE TERMS: anhydride, polymer, maleic, copolymer, calculated, formula, hair, ethylene, mol, recurring ...

650. 3735376 , May 22, 1973 , LEAKAGE INDICATOR FOR A FIRE EXTINGUISHER , Kermer, Jack M., Los Angeles, CA; Sitabkhan, Abdul N., El Monte, CA, 05121452, HTL Industries, Inc., Monrovia, CA

CORE TERMS: container, diaphragm, fluid, fire extinguisher, lamp, port, microswitch, cap, fire extinguishing, differential ...

651. 3730782 , May 1, 1973 , NON-ACTIVATED SOLDERING FLUX , 057058644, INTERNATIONAL BUSINESS MACHINES CORPORATION

CORE TERMS: flux, rosin, soldering, solvent, fluorocarbon, surfactant, cationic, residue, alcohol, water white ...

652. 3728233 , April 17, 1973 , POROUS ELECTRODE HAVING OPEN FEED CAVITY , 057226039, PHILLIPS PETROLEUM COMPANY

CORE TERMS: electrode, feed, electrolyte, porous, anode, cavity, carbon, cell, pore, electrochemical ...

653. 3727570 , April 17, 1973 , DRAG REDUCTION METHOD , Molinski, John, 128 Purington Street Somerset, MA 02726, 05012520

CORE TERMS: polymer, freon, suspension, chain, torpedo, drag, fluorocarbon, polyethylene, injection, aquatic ...

654. 3726141 , April 10, 1973 , FAST-RESPONSE TWO-PHASE THERMOMETER , Bremer, Norman C., Ithaca, NY, 05130666, Wallace, Maury, Ithaca, NY

CORE TERMS: fluid, bulb, thermometer, diaphragm, bore, thermal, capillary, shell, mercury, porous ...

655. 3716988 , February 20, 1973 , PRESSURE TRANSLATING APPARATUS AND PROCESS , Wurm, Jaroslav, Cicero, IL, 05108115, The Institute of Gas Technology, Chicago, IL

CORE TERMS: compressor, energy, engine, heat, secondary, valve, volume, regenerative, working fluid, heat engine ...

656. 3716882 , February 20, 1973 , AUTOMATIC INFLATOR DEVICE FOR EXPANDABLE STRUCTURES , 057061454, ILC INDUSTRIES, INC.

CORE TERMS: pin, piercing, container, inflating, disc, trigger, valve, hydrostatic, bellows, soluble ...

657. 3708996 , January 9, 1973 , PRESSURE TRANSLATING APPARATUS AND PROCESS , Wurm, Jaroslav, 2240 S. 59th Avenue Cicero, IL 60650, 05157456

CORE TERMS: piston, compression, chamber, fluid, heat, refrigerant, translating, cushion, cycle, cooling ...

658. 3705925 , December 12, 1972 , METHOD FOR SEPARATION OF FATTY ALCOHOLS FROM HYDROCARBONS , 046808486, CONOCO, INC.

CORE TERMS: alcohol, hydrocarbon, fluorocarbon, chamber, perfluoro, conduit, aluminum, carbon, alkyl, extraction ...

659. 3702615 , November 14, 1972 , NON-TOBACCO SMOKEABLE, CHEWING AND DIPPING PRODUCT , Rozacky, Eugene E., 1304 Wentwood Drive Irving, TX 75060; Rozacky, Rebecca, 1304 Wentwood Drive Irving, TX 75060, 05058624

CORE TERMS: ethylene oxide, propylene, oxide, shredded, tobacco, mixture, plant, dried, leaf, fiber ...

660. 3698185 , October 17, 1972 , METHOD FOR DISPERSING DISCRETE PARTICLES , Crecelius, John D., Ridgecrest, CA, 04866072

CORE TERMS: flakes, tank, slurry, shield, freon, heat, manifold, aircraft, gas, ball bearing ...

661. 3695050 , October 3, 1972 , LIQUID PROPELLANT STORAGE TANK , Bancroft, George H., Davenport, IA, 05037072

CORE TERMS: foam, tank, chamber, gas, radiation, helium, thermal conductivity, thermal, storage, carbon dioxide ...

662. 3692567 , September 19, 1972 , METHOD FOR CONTROLLING NOXIOUS VAPORS , 057148952, GAF CHEMICALS CORPORATION

CORE TERMS: flame, phosphate, fibrous, retardant, vapors, getter, halogenated, noxious, liberated, compound ...

663. 3691841 , September 19, 1972 , TEMPERATURE COMPENSATOR , Lorenzino, Paul, Duncan, OK; Love, Robert G., Duncan, OK, 05036629, Halliburton Company, Duncan, OK

CORE TERMS: fluid, electrode, probe, dielectric, capacitance, capacitor, plug, volume, electrically, oscillator ...

664. 3688293 , August 29, 1972 , AUTOMATIC TIME-CONTROLLED ALARM SYSTEM , Sullivan, Joseph T., Huntingdon Valley, PA, 05035684, Standard-Farrington Alarm & Signal Corp., Trevose, PA

CORE TERMS: alarm, terminal, capacitor, resistor, transistor, sensor, switch,

solenoid, relay, cathode ...

665. 3685308 , August 22, 1972 , CHILLING CONSUMER SIZE FOOD PACKAGES ,
Lundquist, Burton R., 1461 Cloverdale Highland Park, IL 60035, 04859827

CORE TERMS: coolant, carton, package, flap, consumer, non-insulated, rapidly,
carbon dioxide, container, chilling ...

666. 3684816 , August 15, 1972 , COOLING SYSTEM FOR FOAM INSULATED BUS ,
Reigher, David H., Roslyn, PA, 05153167, I-T-E Imperial Corporation,
Philadelphia, PA

CORE TERMS: dielectric, foam, bus, insulation, conductor, sub, cell, phase,
coolant, isolated ...

667. 3667419 , June 6, 1972 , PRECISION TEMPERATURE DETECTION AND ALARM SYSTEM ,
Sullivan, Joseph T., Huntingdon Valley, PA, 05076017, Standard-Farrington Alarm
& Signal Corp., Trevose, PA

CORE TERMS: cup, heat, eutectic, disc, alarm, cylinder, horn, collector,
activator, pellet ...

668. 3664177 , May 23, 1972 , PORTABLE DEW POINT HYGROMETER , Bridgeman, Richard
C., Northbrook, IL; Gajewski, Wieslaw, Evanston, IL, 05064160, Vapor
Corporation, Chicago, IL

CORE TERMS: sensor, cooling, meter, gas, dew point, dew point temperature,
battery, hygrometer, resistor, grid ...

669. 3663521 , May 16, 1972 , POLYMERS OF PERFLUOROBUTADIENE AND METHOD OF
MANUFACTURE , 057145026, UNITED STATES OF AMERICA, NATIONAL AERONAUTICS AND
SPACE ADMINISTRATION

CORE TERMS: catalyst, polymer, perfluorobutadiene, polymerization, irradiation,
polyperfluorobutadiene, copolymer, ultraviolet, peroxydicarbonate, diisopropyl
...

670. 3660372 , May 2, 1972 , BIPHENYL CONTAINING DIAZONIUM FLUORIDE COMPOUNDS ,
046748922, MERCK + CO., INC.

CORE TERMS:

671. 3657357 , April 18, 1972 , INSECTICIDAL COMPOUNDS AND METHODS FOR THEIR
PREPARATION , 046842735, COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH
ORGANIZATION

CORE TERMS: compound, insect, fly, dieldrin, insecticide, strain, insecticidal,
solvent, blowfly, p-ethoxyphenyl ...

672. 3655044 , April 11, 1972 , SEPARATION OF MOLYBDENUM SULFIDE FROM COPPER
SULFIDE WITH DEPRESSANTS , Delaney, John F., Tucson, AZ, 05004356; The Anaconda
Company, New York, NY

CORE TERMS: copper, flotation, reagent, pulp, concentrate, froth, sulfide,
mineral, emf, ore ...

673. 3653222 , April 4, 1972 , METHOD OF FREEZING SOLUTION DROPLETS AND THE LIKE
USING IMMISCIBLE REFRIGERANTS OF DIFFERING DENSITIES , Dunn, Eugene Blair, South

Plainfield, NJ; Masavage, Gerald James, Manville, NJ; Sauer, Harold Alfred, Hatboro, PA, 05015001, Bell Telephone Laboratories, Incorporated, Murray Hill, NJ

CORE TERMS: refrigerant, droplet, interface, injection, zone, salt, freezing, density, differential, region ...

674. 3650405 , March 21, 1972 , APPARATUS FOR CHLORINATING SWIMMING POOLS , Morrison, Robert L., 18219 Van Ness Ave. Torrance, CA 90504, 04863104

CORE TERMS: chlorine, gas, dispersion, carbon dioxide, valve, hose, swimming pool, pool, dolly, orifice ...

675. 3643656 , February 22, 1972 , INFLATABLE SURGICAL CAST , Young, Joseph V., Route 2, Box 90A Lewisville, TX 75064; Johnson, Richard M., 3815 Weeburn Drive Dallas, TX 75229, 04833355

CORE TERMS: cast, shell, leg, chamber, heelpiece, sheet, flexible, tubular, cylindrical, aperture ...

676. 3634636 , January 11, 1972 , AUTOMATIC CIRCUIT CONTROL SWITCH , Lyon, Jerry H., Stanhope, NJ, 05070807

CORE TERMS: switch, thruster, atmosphere, conductor, spring, vapor, housing, automatically, ambient, rubber ...

677. 3621666 , November 23, 1971 , COOLING APPARATUS AND PROCESS , 046880733, AMERICAN GAS ASSOCIATION

CORE TERMS: membrane, gas, heat, thermal, permeable, cooling, exchanger, porous, inlet, outlet ...

678. 3621665 , November 23, 1971 , THERMAL PUMP AND PROCESS , 046880732, AMERICAN GAS ASSOCIATION

CORE TERMS: membrane, gas, thermal, pump, porous, permeable, heat, outlet, inlet, gradient ...

679. 3618974 , November 9, 1971 , VEHICLE SAFETY APPARATUS , Chute, Richard, Huntington Woods, MI, 04814031, Eaton Yale & Towne Inc., Cleveland, OH

CORE TERMS: confinement, reservoir, gas-producing, accident, explosive charge, fluid, occupant, occurrence, vaporization, partialized ...

680. 3618854 , November 9, 1971 , VEHICLE-HEATING SYSTEM EMPLOYING A CRITICAL POINT HEAT PIPE , Frank, Sidney, Baltimore, MD, 04786053, Isotopes, Inc., Westwood, NJ

CORE TERMS: heat, pipe, sub, engine, transport, sink, evaporator, heat exchanger, coolant, working fluid ...

681. 3612923 , October 12, 1971 , ELECTROGASDYNAMIC CONVERTER WITH RESISTIVE CHANNEL , Collier, Edward L., Morris Plains, NJ; Gourdine, Meredith C., West Orange, NJ; McCrae, Harold W., Upper Montclair, NJ, 04673078, Gourdine Systems, Inc., Livingston, NJ

CORE TERMS: channel, sub, path, electrode, resistance, collector, aerosol, film, converter, stream ...

682. 3610323 , October 5, 1971 , COOL COAT , Troyer, Dan E., Rte. 2, Box 53
Fredericksburg, OH 44627, 04867667

CORE TERMS: tubular, network, garment, cooling, tube, coat, cool, reservoir,
bulb, capillary ...

683. 3608114 , September 28, 1971 , INFLATABLE STRUCTURE DEVICE AND METHOD OF
INFLATING SAME , 057000969, ILC INDUSTRIES, INC.

CORE TERMS: inflating, bladder, wicking, inflation, life vest, inflatable,
container, rapid, vest, web ...

684. 3591967 , July 13, 1971 , FEED SYSTEM FOR AN ION THRUSTER , Paine, T. O.
Administrator of the National Aeronautics and Space Administration, with respect
to an invention of, La-Crescenta, CA; Masek, Tommy D., 3788 Cloud Ave. La
Crescenta, CA, 04760114

CORE TERMS: mercury, vapor, vaporizer, reservoir, chamber, propellant, engine,
vaporized, ion, conduit ...

685. 3590597 , July 6, 1971 , COOLING APPARATUS EMPLOYING THE JOULE-THOMSON
EFFECT , Campbell, David Neil, Redditch, EN, 04847917, The Hymatic Engineering
Company Limited, Redditch, EN

CORE TERMS: refrigerant, heat exchanger, cooling, nozzle, sensor, tubular,
tube, cooler, valve, first stage ...

686. 3587725 , June 28, 1971 , HEAT PIPE HAVING A SUBSTANTIALLY UNIDIRECTIONAL
THERMAL PATH , 046767956, HUGHES AIRCRAFT COMPANY

CORE TERMS: heat, pipe, region, wick, fluid, working fluid, capillary, housing,
unidirectional, spacecraft ...

687. 3580003 , May 25, 1971 , COOLING APPARATUS AND PROCESS FOR HEAT-ACTUATED
COMPRESSORS , Dolan, Joseph P., Chicago, IL, 04752710, The Institute of Gas
Technology, Chicago, IL

CORE TERMS: compressor, refrigerant, cooling, heat-actuated, boiling,
regenerative, cooler, heat, cooling system, atmosphere ...

688. 3578520 , May 11, 1971 , THERMAL INSULATION AND BOND FOR SOLID FUEL MOTORS
AND METHOD OF MAKING SAME , 046745638, GENERAL ELECTRIC COMPANY

CORE TERMS: grain, casing, propellant, rocket, insulating, bonding, foam,
foaming, bond, elastomeric ...

689. 3578210 , May 11, 1971 , AEROSOL DISPENSING CONTAINER WITH RESERVE
PROPELLANT CHAMBERS , Pitrolffy-Szabo, Thomas B., 728 Belmont St. Watertown, MA
02172, 05002276

CORE TERMS: propellant, chamber, container, compartment, reserve, valve,
quantity, gas, expel, novel ...

690. 3567117 , March 2, 1971 , ICE NUCLEI FORMATION , Eustis, William E. C.,
Cambridge, MA, 04854102, Hedco, Inc., Bedford, MA

CORE TERMS: ice, nuclei, conduit, droplet, stream, nozzle, humidity, housing,

airstream, nucleating ...

691. 3566669 , March 2, 1971 , METHOD AND APPARATUS FOR THERMALLY EXAMINING FLUID PASSAGES IN A BODY , 046757435, Individually Owned

CORE TERMS: blade, fluid, thickness, exterior, thermal, vane, thermocouple, cooling, dimension, turbine ...

692. 3565306 , February 23, 1971 , METHOD FOR DICING AND CLEANING SEMICONDUCTOR SLICES , St. Louis, Jacques R., Ottawa, Ontario, CA, 04819735, Northern Electric Company Limited, Montreal, Quebec, CA

CORE TERMS: slice, holder, dice, cleaving, vacuum, ring, screen, disc, cylindrical, scribed ...

693. 3564727 , February 23, 1971 , FREEZE DRYER USING AND EXPENDABLE REFRIGERANT , 046803760, FIRTIS COMPANY, INC.

CORE TERMS: chamber, freeze drying, refrigeration, vacuum, heat, novel, door, refrigerant, condensing, stoppering ...

694. 3564088 , February 16, 1971 , PROCESS FOR FLASH SPINNING AN INTEGRAL WEB OF POLYPROPYLENE PLEXIFILAMENTS , 046854920, E. I. DU PONT DE NEMOURS AND COMPANY

CORE TERMS: orifice, spinneret, solvent, polymer, chamber, web, spinning, strand, let-down, integral ...

695. 3564023 , February 16, 1971 , 1,4-BIS-(TRIS(NF/2\))METHOXY)-2-BUTENE OXIDE AND POLYMER THEREOF , 046386088, EXXON RESEARCH + ENGINEERING CO.

CORE TERMS: nf2, polymer, oxide, butene, epoxide, trans, binder, cis, tris, propellant ...

696. 3563309 , February 16, 1971 , HEAT PIPE HAVING IMPROVED DIELECTRIC STRENGTH , Basiulis, Algerd, Redondo Beach, CA, 04759854, Hughes Aircraft Company, Culver City, CA

CORE TERMS: heat, pipe, wick, working fluid, vapor, housing, inert gas, fluid, sub, dielectric ...

697. 3560849 , February 2, 1971 , LIQUID TEMPERATURE CONTROLLED TEST CHAMBER AND TRANSPORT APPARATUS FOR ELECTRICAL CIRCUIT ASSEMBLIES , 046660673, AAI CORPORATION

CORE TERMS: integrated, relay, packaged, switch, tape, transport, terminal, coil, magazine, arm ...

698. 3559737 , February 2, 1971 , UNDERGROUND FLUID STORAGE IN PERMEABLE FORMATIONS , Ralstin, James F., 672 Union Center Building Wichita, KS 67202; Heathman, Jack H., 672 Union Center Building Wichita, KS 67202, 04726720

CORE TERMS: formation, storage, fluid, refrigerant, zone, aquifer, gas, fracture, hydrate, rock ...

699. 3558756 , January 26, 1971 , PROCESS OF MAKING GELATIN WOOL FILTER , 046804291, MCDONNELL DOUGLAS CORP.

CORE TERMS: gelatin, filter, wool, alcohol, micron, particles, vacuum,

bacteriological, ethylene oxide, sterilizing ...

700. 3554958 , January 12, 1971 , PROTECTIVE COATING AND LUBRICANT , 046728074,
SANDSTROM PRODUCTS COMPANY

CORE TERMS: composition, coating, solvent, polyepoxide, molecular weight,
aerosol, nitrous oxide, propellant, film, resin ...

701. 3552347 , January 5, 1971 , GAS POWERED SWIMMING AID , Hastings, Caryl C.
B., 5 Arrow St. Cambridge, MA 02138, 04808847

CORE TERMS: gas, compressed, tube, propulsion, nonporous, elastic, marine,
propeller, container, roller ...

702. 3551204 , December 29, 1970 , ELECTRONIC DEVICES FROM ENCAPSULATION IN
POTTING COMPOUNDS

CORE TERMS: solvent, composition, potting, compound, ether, ethylene glycol,
wiring, carbon, electronic devices, encapsulated ...

703. 3550248 , December 29, 1970 , METHOD OF PERFORATING TUBES

CORE TERMS: tubulous, apertures, flexible, hollow, fluid, remote control, hole,
tube, dimensionally, transmitting ...

704. 3548058 , December 15, 1970 , 8-CHROMANYL CARBAMATE ESTERS AS PESTICIDES

CORE TERMS: kill, compound, mixture, ether, methylcarbamate, preparation,
pesticidal, dried, benzene, bean ...

705. 3546976 , December 15, 1970 , POWER OPERATED DRILL

CORE TERMS: chamber, valve, drilling, actuating, drill, workpiece, spray, rod,
fluid, connecting ...

706. 3546186 , December 8, 1970 , COPOLYMERS OF SUBSTITUTED PERFLUOROVINYL
ETHERS

CORE TERMS: ether, fluoride, perfluorovinyl, substituted, comonomers,
copolymers, monomers, carbons, hexafluoropropylene, fluorinated ...

707. 3544274 , December 1, 1970 , HALOGEN PRODUCTION

CORE TERMS: halogen, halide, oxidation, zone, effluent, nitrogen, hydrogen,
distillation, compound, oxygen ...

708. 3543324 , December 1, 1970 , PIPELINE PIG AND ASSOCIATED APPARATUS

CORE TERMS: pipeline, pig, fluid, cell, equalization, therethrough, indefinite,
inflation, spherical, interior ...

709. 3531048 , September 29, 1970 , SUPERSONIC STREAMING

CORE TERMS: nozzle, inlet, hole, boundary layer, throat, plane, supersonic,
outlet, implosion, effective ...

710. 3528256 , September 15, 1970 , FREEZE CRYSTALLIZATION USING DIRECT
REFRIGERANT

CORE TERMS: refrigerant, freezer, crystals, ice, hydrate, direct contact, freezing, washing, partial, crystallization ...

711. 3526094 , September 1, 1970 , RAMJET ENGINE WITH RETRACTABLE LOW-SPEED DEFLECTORS

CORE TERMS: ramjets, deflectors, rotary, carrier, aft, curved, engine, fore, retracting, starting ...

712. 3525243 , August 25, 1970 , WIRE CLEANING APPARATUS

CORE TERMS: hollow, wire, wire drawing, bore, piezoelectric, acoustic, cleaning, longitudinal, discs, article-receiving ...

713. 3525236 , August 25, 1970 , PORTABLE SELF-COOLING DEVICE

CORE TERMS: beverage, cooling, chamber, refrigerant, self-cooling, portable, gases, gas, drop in temperature, elongated ...

714. 3524911 , August 18, 1970 , AEROSOL INSECTICIDAL COMPOSITIONS

CORE TERMS: insecticide, toxic, strip, composition, concentration, insecticidal, user, foam-forming, effective, container ...

715. 3522659 , August 4, 1970 , METHOD AND APPARATUS FOR TREATING SOLID MATERIAL IN PARTICULATE OR FIBROUS FORM

CORE TERMS: chamber, gas, outlet, treating, pressurized, jets, streams, outer boundary, revolution, engagement ...

716. 3513240 , May 19, 1970 , CONTROLLING BEETLES WITH
3,5-DIMETHYL-4DIMETHYLAMINOMETHYLPHENYL N METHYLCARBAMATE

CORE TERMS: compound, beetles, concentration, plants, ch3, inter alia, dimethylaminomethylphenyl-n-methylcarbamate, insecticidal, preparation, composition ...

717. 3512965 , May 19, 1970 , ELECTROPRINTING METHOD

CORE TERMS: developer, barrier, layer, electrostatic, solvent, n-heptane, photoconductive, conductivity, oil, latent ...

718. 3507866 , April 21, 1970 , PROCESSES FOR THEIR PREPARATION

CORE TERMS: methyl, alkyl, acid, ch3, carbon, atom, hydrazide, ch2, pyrazin-2-one, recrystallized ...

719. 3503685 , March 31, 1970 , TEMPERATURE COMPENSATED SPECTROSCOPIC APPARATUS

CORE TERMS: slit, ring, grating, wavelength, curve, focal, exit, angstroms, spectrum, housing ...

720. 3499238 , March 10, 1970 , BUBBLING DISPLAY DEVICE

CORE TERMS: bubble, display, beer, champagne, envelope, column, transparent, perforations, perforated, smaller ...

721. 3499009 , March 3, 1970 , POLYOLS OF METHYLENEDIANILINES

CORE TERMS: polyol, alkoxylation, alkylene, oxide, methylenedianiline, alkoxylation, polyurethanes, amine, ethylene oxide, preparation ...

722. 3492205 , January 27, 1970 , DISTILLATION SYSTEM AND METHOD

CORE TERMS: heat, refrigeration, distillation, evaporator, condenser, portable, solvent, tank, sea water, refrigerating ...

723. 3492196 , January 27, 1970 , BUILT-UP INSULATED STRUCTURE AND METHOD

CORE TERMS: foamed, insulating, asphalt, sheet, layer, insulation, plastic, thermoplastic, composition, copolymer ...

724. 3491554 , January 27, 1970 , HEAT-ACTUATED REGENERATIVE COMPRESSOR SYSTEM

CORE TERMS: compressor, refrigerant, heat-actuated, chamber, regenerative, cooling, piston, linkage, cycle, gas ...

725. 3487330 , December 30, 1969 , HIGH POWER DISSIPATION LASER STRUCTURE

CORE TERMS: laser, coolant, optical, disc, segmented, lamp, segment, heat, dissipation, flash ...

726. 3486848 , December 30, 1969 , REFRIGERATE D CRYSTALLIZER SYSTEM

CORE TERMS: salt, crystal, butane, contactor, liquefied, gas, phase, immiscible, cooling, coil ...

727. 3485901 , December 23, 1969 , METHOD FOR MAKING A PRIMER CONTAINING COATED NITROCELLULOSE GRANULES

CORE TERMS: primer, granules, solvent, binder, combustible, propellant, fabricating, caseless, cup, fabrication ...

728. 3475212 , October 28, 1969 , METAL CONDUCTOR COATED WITH NONLINEAR COPOLYESTER BASECOAT LAYER AND POLYAMIDE-IMIDE OUTER LAYER

CORE TERMS: acid, copolyester, phenol, resin, gram, wire, alkyl, titanium, solvent, coating ...

729. 3475108 , October 28, 1969 , BLADE STRUCTURE FOR TURBINES

CORE TERMS: blade, turbine, rotary, ring, stationary, profile, entrance, steam, high pressure, exit ...

730. 3469934 , September 30, 1969 , METHOD OF PURIFYING CLOSED ATMOSPHERES

CORE TERMS: atmosphere, tower, carbon dioxide, absorbent, conduit, charcoal, gases, regenerated, absorber, chamber ...

731. 3456052 , July 15, 1969 , AEROSOL COMPOSITION CONTAINING BUTOXYMONOETHER OF A POLYOXYALKYLENE GLYCOL

CORE TERMS: ointment, composition, propellant, spray, medicament, aerosol, ingredient, container, utilized, quantity ...

732. 3454198 , July 8, 1969 , DISPENSING DEVICE

CORE TERMS: dispensing, container, ingredient, outlet, valve, orifice, mixing, nozzle, novel, reducing agent ...

733. 3431749 , March 11, 1969 , DEVICE FOR FROSTING COCKTAIL GLASSES

CORE TERMS: spray, glass, dispenser, cooling, nozzle, cocktail, actuator, rim, platform-actuator, platform ...

734. 3431742 , March 11, 1969 , GENERATION OF COOL WORKING FLUIDS

CORE TERMS: chamber, hot, gas, gases, fluid, mixing, outlet, passageway, storage, fuel ...

735. 3425152 , February 4, 1969 , FLUID STREAM GENERATOR

CORE TERMS: fluid, stream, compartment, conduit, reservoir, generator, chamber, collection, generation, generative ...

736. 3417267 , December 17, 1968 , HEAT-ELECTRICAL POWER INTERCONVERSION DEVICES

CORE TERMS: gas, aerosol, density, conversion, vapor, velocity, electrode, corona, collector, airfoil ...

737. 3416707 , December 17, 1968 , VALVE, AEROSOL POLYMER DISPENSER, AND METHOD

CORE TERMS: mixing, reactive, valve, polymer, zone, containers, vortex, ball, complementary, aerosol ...

738. 3415078 , December 10, 1968 , INFRARED DETECTOR COOLER

CORE TERMS: detector, tube, chamber, gas, cooldown, stabilization, precooling, housing, inlet, refrigerant ...

739. 3407052 , October 22, 1968 , NATURAL GAS LIQUEFACTION WITH CONTROLLED Btu CONTENT

CORE TERMS: exchanger, gas, refrigerant, compressor, supplied, feed, pounds, reduction, valve, liquefied ...

740. 3405291 , October 8, 1968 , I VAPOR

CORE TERMS: fluid, generator, working fluid, electrode, electrogasdynamic, cycle, ions, gas, saturated, electric ...

741. 3385801 , May 28, 1968 , FLAIAE-RESISTANT POLYURETHANES

CORE TERMS: polyurethane, polyol, dialkyl, mixture, polyisocyanate, compound, phosphorus, foam, reactant, a-hydroxyalkylphosphonate ...

742. 3379118 , April 23, 1968 , BAKING RACK

CORE TERMS: food, tube, pin, rack, vapor, screw, heat, baking, heating, plug ...

743. 3373580 , March 19, 1968 , PORTABLE AND SELF-CONTAINED APPARATUS FOR CHILLING AND FROSTING BEVERAGE GLASSES

CORE TERMS: bowl, container, platform, refrigerant, glass, valve, nozzle, holder, c02, frosting ...

744. 3356088 , December 5, 1967 , BREATH-CONTROLLED ANESTHETIC APPLICATOR AND METHOD OF OPERATION

CORE TERMS: patient, anesthesia, valve, tube, metering, breathing, arm, linkage, anesthetic agent, electrical ...

745. 3349571 , October 31, 1967 , REMOVAL OF CARBON DIOXIDE FROM SYNTHESIS GAS USING SEPARATED PRODUCTS TO COOL EXTERNAL REFRIGERATION CYCLE

CORE TERMS: stream, refrigerant, carbon dioxide, gas, cooled, synthesis gas, discharged, vapor, residual, heat exchange ...

746. 3319432 , May 16, 1967 , REFRIGERATION SYSTEM

CORE TERMS: refrigerant, vapor, stream, cooling, compression, vessel, refrigeration, valve, vaporization, cylinder ...

747. 3302362 , February 7, 1967 , METHOD FOR FORMING ROOF STRUCTURE

CORE TERMS: foam, beam, roof, fiber, resin, skin, plastic, cavity, mat, reinforced ...

748. 3298383 , January 17, 1967 , FLUID BLENDING SYSTEM

CORE TERMS: valve, conduit, blending, mixing, chamber, fluid, blended, controller, aerosol, storage ...

749. 3273379 , September 20, 1966 , METHOD OF LOCATING LEAKS

CORE TERMS: leak, stream, tracer, heat exchange, fluorocarbon, approximate, moving, multiple pass, concentration, decreasing ...

750. 3271965 , September 13, 1966 , METHANE LIQUEFACTION PROCESS

CORE TERMS: vessel, gas, pipe, methane, natural gas, storage tank, liquefied, vapor, conveyed, cooled ...

751. 3261167 , July 19, 1966 , METHOD FOR REMOVAL OF CONTAMINANTS FROM GAS

CORE TERMS: cooler, evaporative, conduit, propane, cooled, gas, valve, natural gas, cooling, vapor ...

752. 3256613 , June 21, 1966 , FABRIC TREATMENT

CORE TERMS: fabric, cleaning, solvent, vapor, dry cleaning, drying, vacuum, cycle, heat, muck ...

753. 3232707 , February 1, 1966 , POWER RECOVERY IN AMMONIA SYNTHESIS

CORE TERMS: stream, gas, ammonia, organic, cooled, vapor, heat exchange, heat, converter, synthesis ...

754. 3224207 , December 21, 1965 , LIQUEFIE

CORE TERMS: conduit, natural gas, gaseous, heat, heat exchanger, propane, nitrogen, exchanger, gas, refrigeration ...

755. 3212699 , October 19, 1965 , GAS COMPRESSION

CORE TERMS: stream, ammonia, compression, cooling, gas, synthesis gas, cooled, interstage, elevated, coil ...

756. 3206185 , September 14, 1965 , SUSPENSION SYSTEM AND APPARATUS FOR SUPPORTING A STRUCTURE

CORE TERMS: fluid, high pressure, piston, phase, piston rod, chamber, volume, clearance, exhaust, closed circuit ...

757. 3205942 , September 14, 1965 , METHOD FOR RECOVERY OF HYDROCARBONS BY IN SITU HEATING OF OIL SHALE

CORE TERMS: fracture, oil shale, fluid, shale, permeability, injection, shale oil, combustion, gas, formation ...

758. 3203866 , August 31, 1965 , PROCESS AND MEANS FOR REMOVING RADIOACTIVE COMPONENTS FROM GASES AND GASEOUS MIXTURES

CORE TERMS: gas, purification, adsorber, purified, cooling, stream, liquid air, cooled, radioactive, protective ...

759. 3174329 , March 23, 1965 , METHOD FOR TESTING ORDNANCE SEALS

CORE TERMS: leak, vessel, detector, enclosure, chamber, testing, quantitative, halogen, air duct, detecting ...

760. 3159008 , December 1, 1964 , COOLING SYSTEM

CORE TERMS: stream, cooling, refrigerant, vapor, ammonia, compression, gas, heat exchange, cooled, cooling system ...

761. 3154087 , October 27, 1964 , MEANS AND METHOD FOR PURGING A HYDRAULIC SYSTEM

CORE TERMS: hydraulic, vapor, purging, conduit, reservoir, pockets, valve, pump, vapor pressure, numeral ...

762. 3146608 , September 1, 1964 , COOLING DEVICE

CORE TERMS: cooling, refrigerant, tube, elbow, cooler, screen, inner tube, chamber, coil, fitting ...

763. 3133009 , May 12, 1964 , CONTINUOUS ANTIDROMIC ELECTROPHORESIS

CORE TERMS: medium, carrier, electrophoresis, cooling, chamber, tape, buffer, amino acids, electrical, separated ...

764. 3132096 , May 5, 1964 , CONTINUOUS SALINE WATER PURIFICATION WATER VELOCITY CRYSTAL DIAMETER

CORE TERMS: crystal, chamber, clathrate, propane, conduit, brine, washing, fresh water, wash water, riser ...

765. 3110544 , November 12, 1963 , CLEANING METHOD FIC 3 TIME MINUTES TIMER
MOTOR FILTER PUMP MOTOR 27 EDUCTOR PUMP MOTOR 89

CORE TERMS: fabric, cleaning, solvent, fiber, vapor, dry cleaning, cycle,
vacuum, chamber, drying ...

766. 3106307 , October 8, 1963 , INSULATED CONTAINER

CORE TERMS: polyurethane, polystyrene, insulation, layer, container, panel,
food, effective, slab, gas ...

767. 3097924 , July 16, 1963 , HELIUM RECOVERY FROM NATURAL GAS

CORE TERMS: vessel, conduit, hydrate, crystal, helium, nitrogen, stream,
natural gas, propane, withdrawn ...

768. 3095851 , July 2, 1963 , WATER MARKING DEVICE

CORE TERMS: chamber, valve, container, propellant, plug, dye, polyurethane,
insoluble, formerly, cellular ...

769. 3086356 , April 23, 1963 , HYPERGOLIC FUEL-OXIDIZER SYSTE M

CORE TERMS: fuel, bipropellant, hypergolic, rocket, ignition, additive,
oxidizer, combustion chamber, concentration, mixture ...

770. 3085908 , April 16, 1963 , ATMOSPHERIC CORROSION

CORE TERMS: panel, coating, silicon, copper, aminoalkyl, hydrocarbon,
corrosion, carbon, bond, compound ...

771. 3058136 , October 16, 1962 , POLISHING MACHINE WITH AEROSOL DISPENSER

CORE TERMS: wax, machine, floor, valve, container, polishing, handle, brush,
housing, shaft ...

772. 3055187 , September 25, 1962 , REFRIGERATION AND AIR CONDITIONING APPARATUS

CORE TERMS: gas generator, pipe, cylinder, gas, exhaust pipe, heat, air
conditioning, refrigeration, evaporator, valve ...

773. 3041313 , June 26, 1962 , POLYSPULAANE RESINS COMPOSITION

CORE TERMS: resin, polyisocyanate, mixture, wire, pentaerythritol, gms,
polyspirane, acid, poly, diisocyanate ...

774. 3030274 , April 17, 1962 , ALLMMI ORGANIC COMPLEX AND ANTIPERSPIRANT
COMTOSITIONS CONTAINING THESAMM

CORE TERMS: compound, aluminum, organic, composition, solvent, mixture, atom,
acid, anti-perspirant, residue ...

775. 3019614 , February 6, 1962 , DUAL TEMPERATURE, REFRIGERATION

CORE TERMS: refrigerant, valve, refrigeration, evaporator, conduit, receiver,
compressor, insoluble, insolubility, condenser ...

776. 3007402 , November 7, 1961 , PRINTING TRANSFERRING MACHINE

CORE TERMS: arm, shaft, sheet, solvent, spring, ledger, machine, cam, fast, rock ...

777. 2999264 , September 12, 1961 , MEANS FOR UNBLOCKING PIPES

CORE TERMS: pipe, gas, handle, sleeve, sealing, bayonet, spring, collar, pressurized, container ...

778. 2990693 , July 4, 1961 , REFRIGERATOR SYSTEM

CORE TERMS: vapour, cold, phase, freezable, volatile, tank, cooled, exchanger, evaporator, heat ...

779. 2986228 , May 30, 1961 , MINIATURE REVERBERATION CHAMBER SYSTEM

CORE TERMS: chamber, reverberation, microphone, wave, loudspeaker, gas, casing, stiffening, vibration, mounting ...

780. 2975957 , March 21, 1961 , DIFFUSION PUMPS

CORE TERMS: pump, pumping, fluid, vessel, vapor, diffusion, saturated, valve, mercury, ejector ...

781. 2975618 , March 21, 1961 , CONTINUOUS FREEZER

CORE TERMS: insulation, container, cylinder, freezer, tank, mix, assembled, rear, shell, pour ...

782. 2972545 , February 21, 1961 , DRESSING COMPOSITION

CORE TERMS: film, polymer, cellulose, dressing, viscosity, acetate-butyrate, plasticizer, ester, propellant, composition ...

783. 2959678 , November 8, 1960 , THERMAL IMAGING DEVICE

CORE TERMS: gas, membrane, thermal, cell, radiation, infra-red, ring, grid, chamber, visible ...

784. 2953498 , September 20, 1960 , ALCOHOLIC POLYVINYLIMIDAZOLE AEROSOL HAIR PREPARATION

CORE TERMS: polyvinyl, film, pyrrolidone, imidazole, hair, preparation, alcohol, polymer, copolymer, grooming ...

785. 2952987 , September 20, 1960 , APPARATUS FOR THE MAINTENANCE OF LIQUEFIED PETROLEUM PRODUCTS AND METHOD OF MANUFACTURE THEREOF

CORE TERMS: container, insulation, cargo, insulating, layer, gases, liquefied, petroleum, wax, asphaltic ...

786. 2952138 , September 13, 1960 , DUAL CYCLE HEAT POWERED AIR CONDITIONING SYSTEM

CORE TERMS: cycle, fluid, heat, turbine, vapor, refrigeration, compressor, medium, pump, cooling ...

787. 2951552 , September 6, 1960 , GAS SEPARATOR

CORE TERMS: sieve, freon-22, molecular, modified, freon-12, gas, mixture, adsorption, gases, curve ...

788. 2951350 , September 6, 1960 , VARIABLE CAPACITY REFRIGERATION

CORE TERMS: mixture, valve, refrigeration, freon-22, sieve, refrigerant, freon-12, molecular, container, modified ...

789. 2951349 , September 6, 1960 , VARIABLE CAPACITY REFRIGERATION SYSTEM 5

CORE TERMS: refrigerant, mixture, freon-22, valve, refrigeration, freon-12, sieve, molecular, evaporator, variable ...

790. 2941866 , June 21, 1960 , PROCESS AND APPARATUS FOR PRODUCING PURE GRAPHITE ELI RODE ELECT ODE

CORE TERMS: resistor, mixture, furnace, graphite, carbonaceous, insulating, compound, processed, layer, halogenated ...

791. 2934694 , April 26, 1960 , MEASURING

CORE TERMS: ion, leak, amplifier, steady state, network, alternating current, sensing, coupling, detector, platinum ...

792. 2925722 , February 23, 1960 , EXPENDABLE LIQUID EVAPORATIVE COOLANT SYSTEM

CORE TERMS: coolant, electronic, altitude, vaporization, cooling, heat, chassis, valve, aerial, feet ...

793. 2882853 , April 21, 1959 , MECHANISM FOR OPERATING A SIGNALLING DEVICE

CORE TERMS: pin, fitting, piercing, lever, plug, bore, signalling, alarm, fluid pressure, counterclockwise ...

794. 2871161 , January 27, 1959 , SPRAYABLE WATER-FREE ALCOHOLIC POLYVINYLPIRROLIDONE HAIR PREPARATION 5

CORE TERMS: hair, film, composition, preparation, alcohol, polyvinylpyrrolidone, drying, dichlorodifluoromethane, pyrrolidone, styling ...

795. 2864785 , December 16, 1958 , ENAMEL COMPOSITION AND ELECTRICAL CONDUCTOR COATED THEREWITH

CORE TERMS: resin, wire, enamel, abrasion, polyvinylal, coating, modifying, resistance, coat, ratio ...

796. 2857307 , October 21, 1958 , FUNGICIDES AND AIE THODS OF PREPARING THE SATME

CORE TERMS: grs, acid, mixture, mol, salt, compound, concentration, aqueous, stirring, fungi ...

797. 2836518 , May 27, 1958 , MODIFIED POLYVINYL ACETAL INSULATED CONDUCTORS

CORE TERMS: resin, solvent, enamel, condensate, polyvinyl, wire, resistance, acetal, composition, formaldehyde ...

798. 2787140 , April 2, 1957 , HEAT PUMP SYSTEM AND CONSTRUCTION

CORE TERMS: panel, conduit, heat pump, heat, fluid, valve, adjoining, circulating, horizontal, framing ...

799. 2764454 , September 25, 1956 , AEROSOL APPARATUS FOR DECORATIVE COATING AND PROCESS FOR MAKING SAID AP

CORE TERMS: container, propellant, cartridge, soluble, ingredient, proportion, capsule, aerosol, tube, cap ...

800. 2760997 , August 28, 1956 , PROCESS FOR THE PRODUCTION OF CHLOROTRIFLUOROETHYLENE BY PASSING A MIXTURE OF TRICHLOROTRIFLUOROETHANE AND HY

CORE TERMS: iron, conversion, chlorotrifluoroethylene, centigrade, zone, by-product, hydrogen, mole, tube, ratio ...

801. 2730466 , January 10, 1956 , INSULATED ELECTRICAL CONDUCTOR 5

CORE TERMS: resin, solvent, polyvinyl, enamel, wire, resistance, acetal, conductor, insulated, melamine ...

802. 2707584 , May 3, 1955 , METHOD OF FILLING THERMAL RESPONSIVE ELEMENTS AND SEALING TUBES

CORE TERMS: tube, fluid, thermal, responsive, jaw, chamber, inwardly, expansible, manifold, collapsing ...

803. 2703610 , March 8, 1955 , MILK EVAPORATION APPARATUS

CORE TERMS: milk, tube, pipe, evaporator, refrigerant, water vapor, drum, condenser, chest, gas ...

804. 2667766 , February 2, 1954 , METHOD OF BALANCING STEAM CONSUMPTION IN AIR CONDITIONING

CORE TERMS: moisture, sorbent, steam, cooling, humidity, refrigerating, air stream, exhaust steam, chemical, relative humidity ...

805. 2667040 , January 26, 1954 , ABSORPTION REFRIGERATION SYSTEM FOR MOBILE APPLICATION

CORE TERMS: generator, valve, chamber, ammonia, refrigerant, products of combustion, receiver, refrigerating, solenoid, cycle ...

806. 2605785 , August 5, 1952 , VALVE MEANS FOR CONTROLLING LIQUIDS AND GASES

CORE TERMS: port, valve, fluid, electro-magnetic, gases

807. 2534789 , December 19, 1950 , ABSORPTION REFRIGERATION

CORE TERMS: refrigerant, solvent, refrigeration, absorption, perchloroethylene, fluoride, chloride, machine, hydrocarbons, aliphatic ...

808. 2408802 , October 8, 1946 , ABSORPTION REFRIGERATION CYCLE

CORE TERMS: refrigerant, solvent, absorber, tower, heat, pump, fractionating, vapor, boiler, machine ...

809. 2364000 , November 28, 1944 , ELECTRIC MOTOR

CORE TERMS: rotor, shaft, chamber, rear, housing, stator, heat, horsepower, silver, winding ...

810. 2249074 , July 15, 1941 , REFRIGERATING APPARATUS

CORE TERMS: refrigerant, coil, conduit, evaporator, vaporized, tank, heat, vapor, valve, heat exchanger ...

811. 1969537 , August 7, 1934 , METHOD AND MEANS FOR DETERMINING ALTITUDE FROM AIRCRAFT

CORE TERMS: frequency, altitude, antenna, meter, wave, oscillation, craft, inductance, curve, grid ...

812. 859888 , July 9, 1907 , MEANS FOR CASTING ALUMINIUM ALLOYS

CORE TERMS: casting, mold, heat, finely, sugar, solid body, subdivided, alloy, molten, ounces ...